

SB Sino Biological

**IHC Antibodies For
Pathology Biomarkers**



Validated IHC Antibodies for Pathology Studies

Sino Biological is an internationally recognized supplier for IVD related raw materials and reagents. Our antibodies have been used to manufacture multiple FDA approved diagnostic kits. Sino Biological offers a panel of proprietary monoclonal antibodies against disease biomarkers. These antibodies are developed in house, and validated in immunohistochemistry (IHC) using formalin-fixed paraffin embedded (FFPE) tissue samples. The production is conducted strictly under ISO13485.



Contents

02

| Product Name | Cat# | Description |
|--------------|------------|-------------|
| CD20 | 11007-MM06 | Mouse MAb |
| CD34 | 10103-MM17 | Mouse MAb |

04

| Product Name | Cat# | Description |
|--------------|-------------|-------------|
| p63 | 100266-R143 | Rabbit MAb |
| CD68 | 11192-R179 | Rabbit MAb |

06

| Product Name | Cat# | Description |
|--------------|-------------|-------------|
| S100 | 100508-R034 | Rabbit MAb |
| | 100508-MM03 | Mouse MAb |

08

| Product Name | Cat# | Description |
|--------------|-------------|-------------|
| LCA | 100342-R145 | Rabbit MAb |
| CD21 | 10811-MM28 | Mouse MAb |

03

| Product Name | Cat# | Description |
|--------------|------------|-------------|
| CD3e | CT026-R301 | Rabbit MAb |
| PD-1 | 10377-MM23 | Mouse MAb |

05

| Product Name | Cat# | Description |
|--------------|-------------|-------------|
| p53 | 90001-R002 | Rabbit MAb |
| MSH6 | 100973-R035 | Rabbit MAb |

07

| Product Name | Cat# | Description |
|--------------|-------------|-------------|
| Vimentin | 100254-R001 | Rabbit MAb |
| CD79a | 100128-R001 | Rabbit MAb |

09

| Product Name | Cat# | Description |
|--------------|-------------|-------------|
| Ki-67 | 100130-MM19 | Mouse MAb |
| MSLN | 13128-MM01 | Mouse MAb |

CD20 Antibody

CD34 Antibody

Cat#

11007-MM06

10103-MM17

Description

Mouse MAb

Mouse MAb

Isotype

IgG1

IgG1

Concentration

1:30-1:100

1:30-1:100

Usage

Paraffin section

Paraffin section

Positive Control

Tonsil

Liver

Cellular Localization

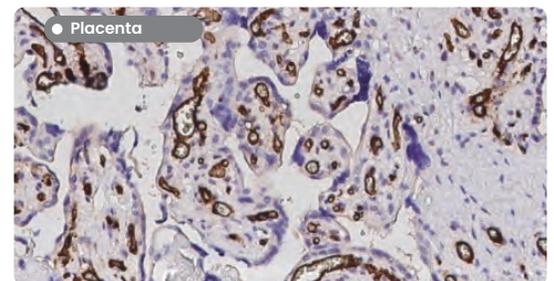
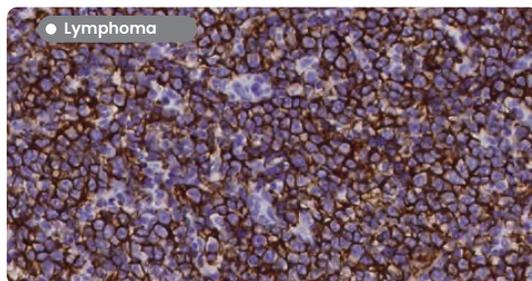
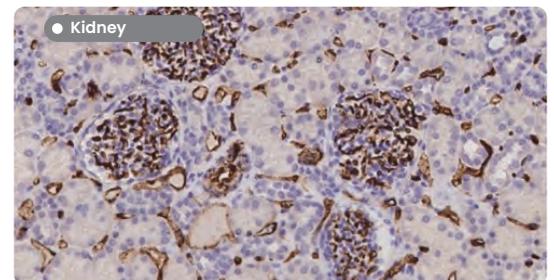
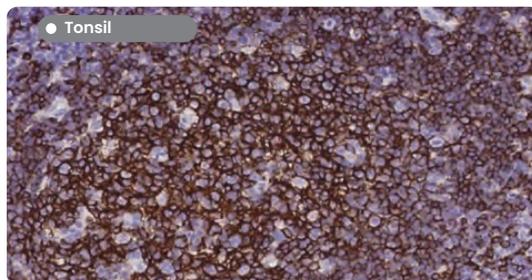
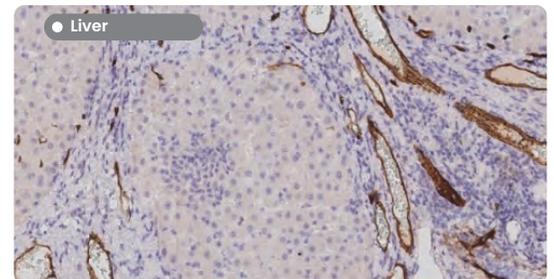
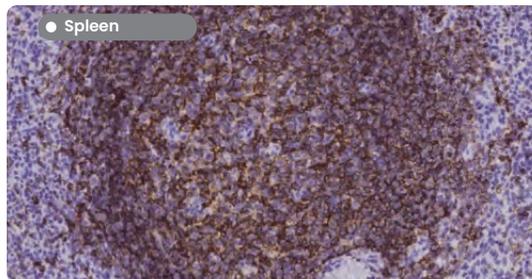
Cell membrane

Cell membrane

Background

CD20 is a canonical biomarker for B-cells. Positive CD20 staining is often used to differentiate B-cell lymphomas. However, Rituximab-treated lymphomas may become CD20-negative.

CD34 is a commonly used biomarker for pluripotent cells and blood vessels. It's often used to identify hematopoietic stem cells (HSC). CD34 staining is often used in the diagnosis of acute myeloid leukemia (AML) and B lymphoblastic leukemia (BLL). CD34 is also a marker for gastrointestinal stromal tumors.



CD3e Antibody

PD-1 Antibody

- Cat#
- Description
- Isotype
- Concentration
- Usage
- Positive Control
- Cellular Localization
- Background

CT026-R301

10377-MM23

Rabbit MAb

Mouse MAb

IgG

IgG1

1:100-1:1000

1:30-1:100

Paraffin section

Paraffin section

Tonsil

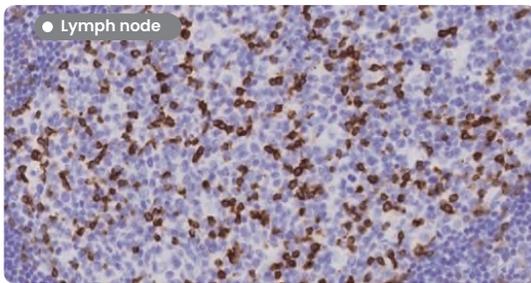
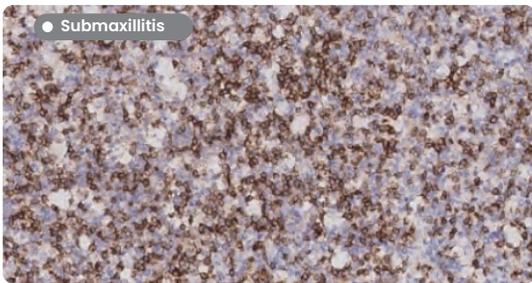
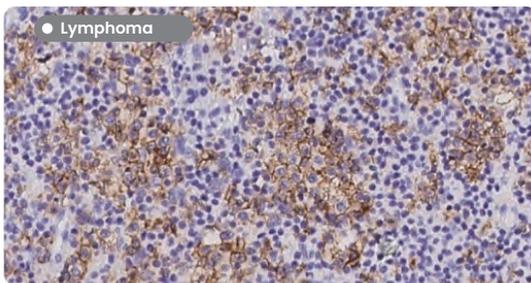
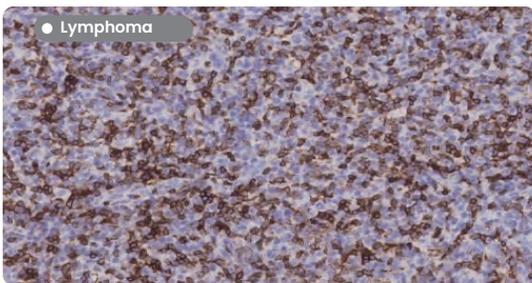
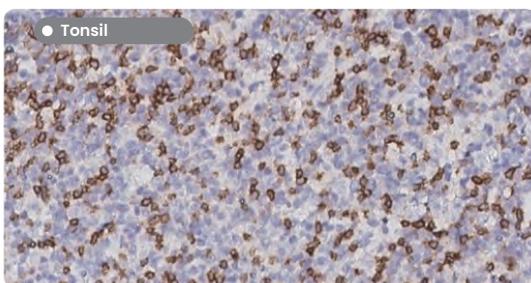
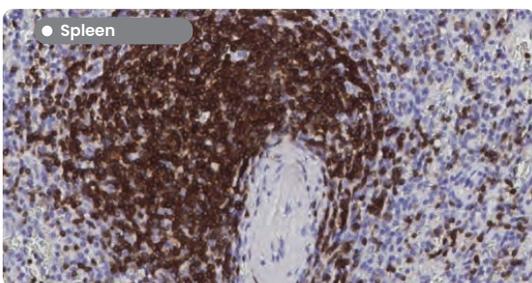
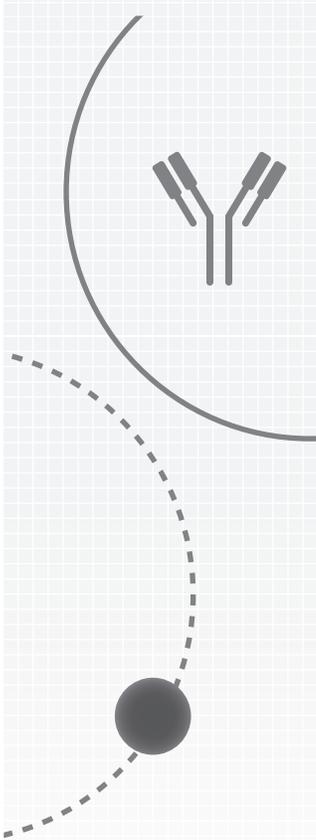
Tonsil

Cell membrane

Cell membrane

CD3 is widely expressed in circulating T-cells. It is considered as a pan-T cell marker. CD3 and CD20 staining are used to differentiate between lymphomas of B-cell and T-cell lineages.

PD-1 is a well-characterized immune checkpoint protein expressed in activated T and B cells. The histochemical staining of PD1 can be in pathology study of Hodgkin's lymphoma.



p63 Antibody

CD68 Antibody

- Cat#
- Description
- Isotype
- Concentration
- Usage
- Positive Control
- Cellular Localization
- Background

100266-R143

11192-R179

Rabbit MAb

Rabbit MAb

IgG

IgG

1:100-1:500

1:100-1:500

Paraffin section

Paraffin section

Prostate

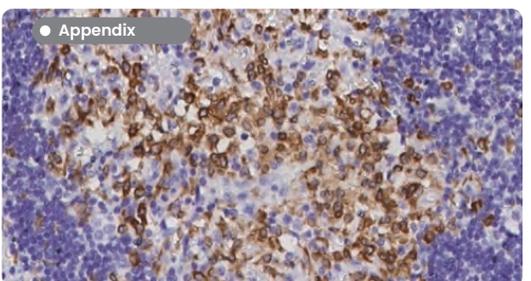
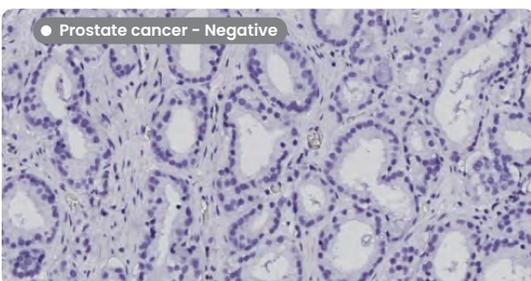
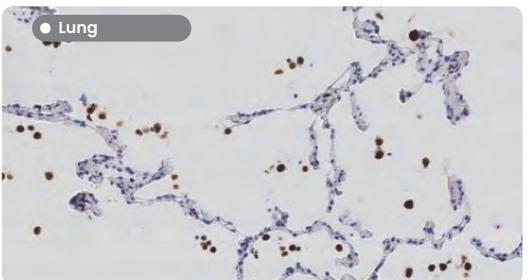
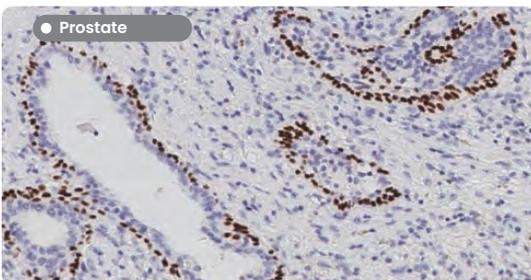
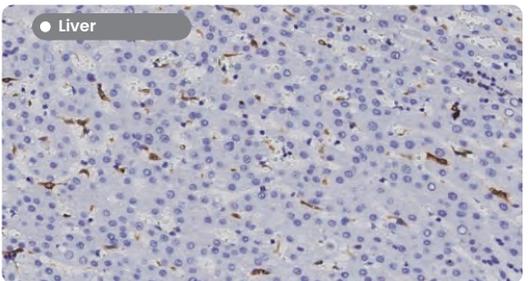
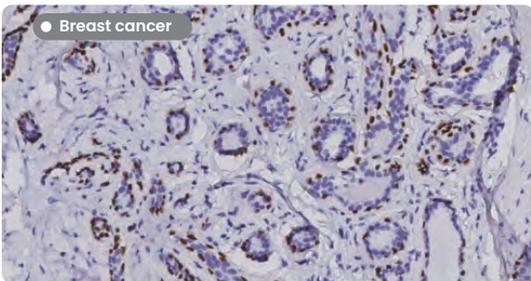
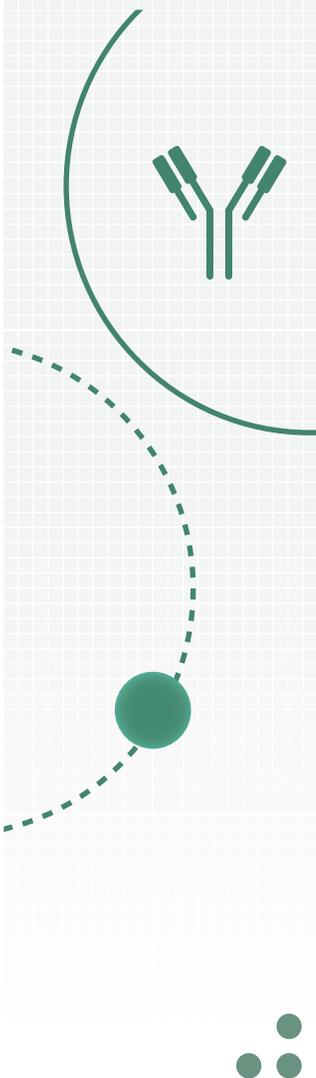
Liver

Cell nucleus

Cell membrane

p63 is a biomarker for stem/pluripotent cell population. p63 is often expressed in the basal cells of stratified epithelium. p63 staining is often used for the diagnosis of prostate tumors. In addition, p63 expression is observed in lung squamous cell carcinoma (LSCC).

CD68 is used as a biomarker for cells of macrophage lineage. CD68 staining is used to characterize infiltrating macrophages in cancerous lesions.



p53 Antibody

MSH6 Antibody

Cat#

90001-R002

100973-R035

Description

Rabbit MAb

Rabbit MAb

Isotype

IgG

IgG

Concentration

1:100-1:500

1:100-1:500

Usage

Paraffin section

Paraffin section

Positive Control

Cancer

Colon cancer

Cellular Localization

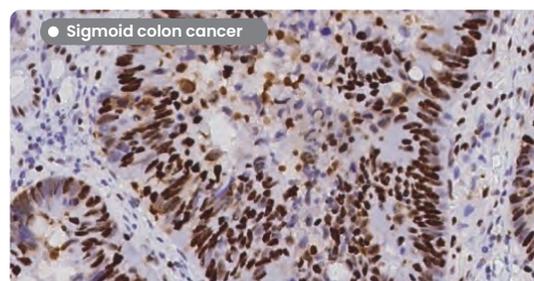
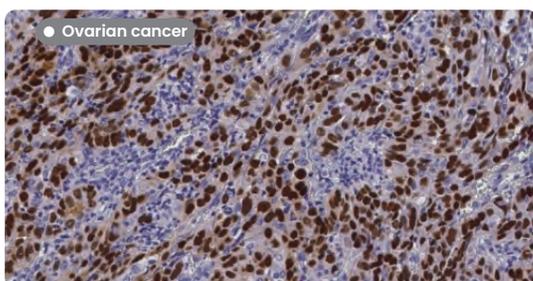
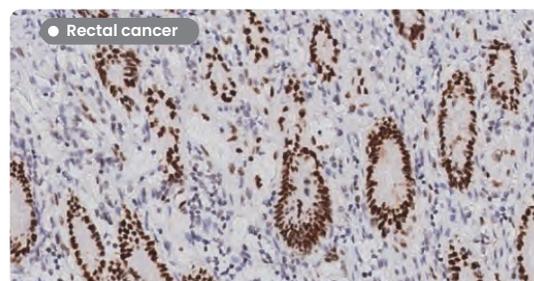
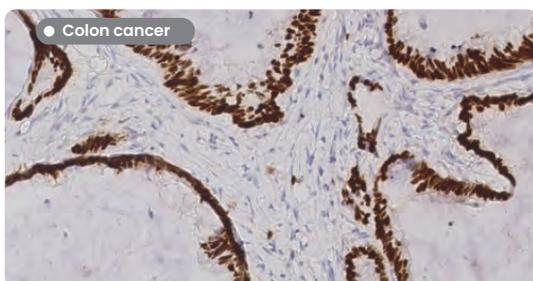
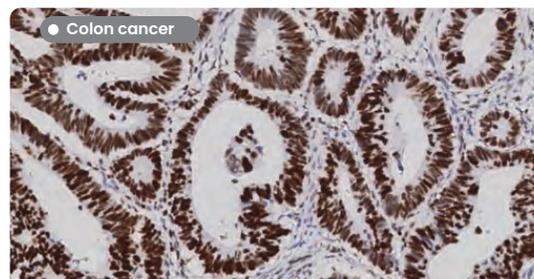
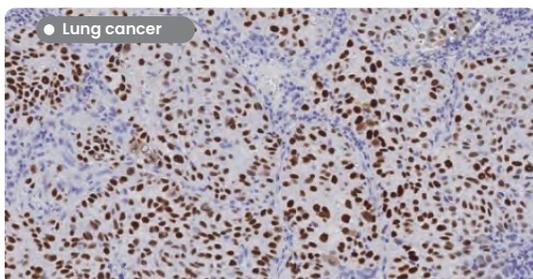
Cell nucleus

Cell nucleus

Background

p53 is a tumor suppressor gene. The mutation of p53 results in increased protein stability and abnormal accumulation of the protein. Hence, p53 IHC is sometimes used as a surrogate assay for mutational analysis. p53 immunoreactivity can be observed in many different tumor types.

MSH6 is a nuclear protein. MSH6 is responsible for mismatch repair. Loss of MSH6 is often associated with microsatellite instability. MSH2, MLH1, and MSH6 IHC is often performed to evaluate hereditary non-polyposis colon cancer (HNPCC) samples.



S100 Antibodies

- Cat#
- Description
- Isotype
- Concentration
- Usage
- Positive Control
- Cellular Localization
- Background

100508-MM03

Mouse MAb

IgG1

1:500-1:3000

Paraffin section

Malignant melanoma

Cell nucleus and cytoplasm

100508-R034

Rabbit MAb

IgG

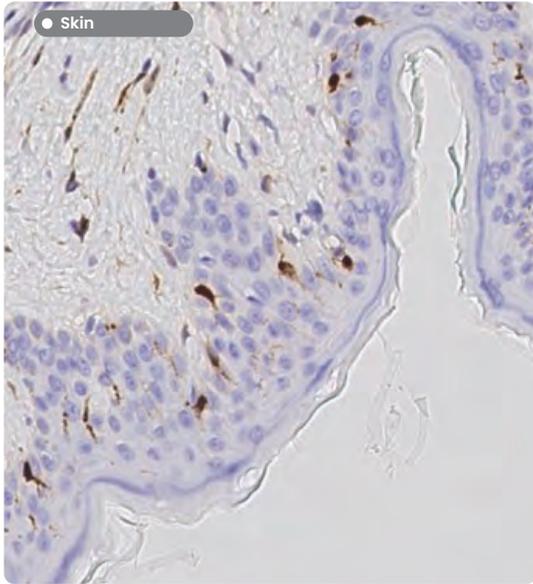
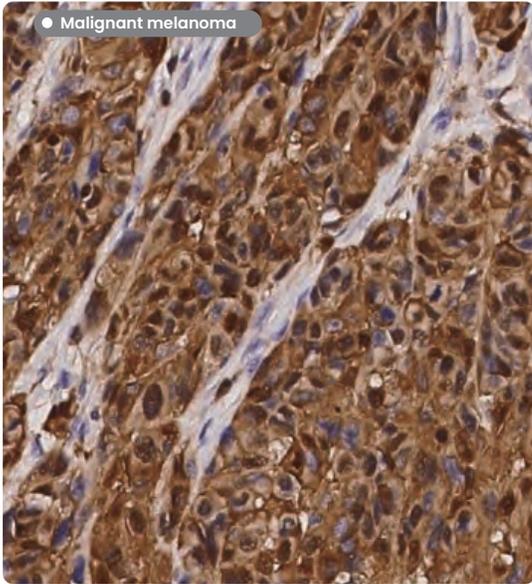
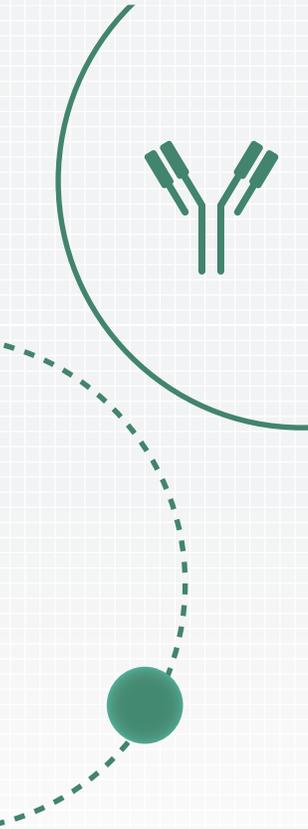
1:200-1:1000

Paraffin section

Malignant melanoma

Cell nucleus and cytoplasm

S100 is marker for malignant melanoma. S100 IHC is often performed along with Vimentin and Melan-A staining for the diagnosis of melanoma. S100 immuno-reactivity may also be used to differentiate different forms of sarcomas.



Vimentin Antibody

CD79a Antibody

- Cat#
- Description
- Isotype
- Concentration
- Usage
- Positive Control
- Cellular Localization
- Background

100254-R001

100128-R001

Rabbit MAb

Rabbit MAb

IgG

IgG

1:1000-1:10000

1:200-1:2000

Paraffin section

Paraffin section

Malignant melanoma

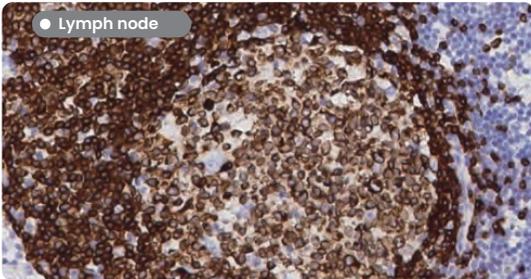
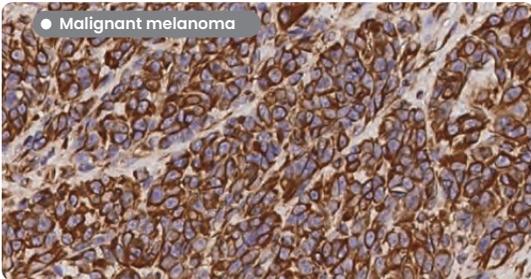
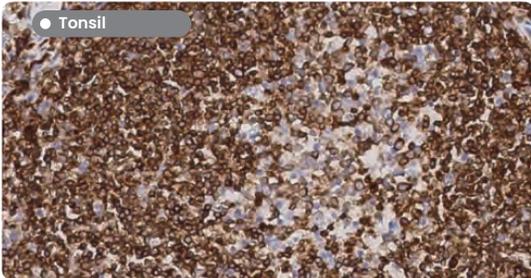
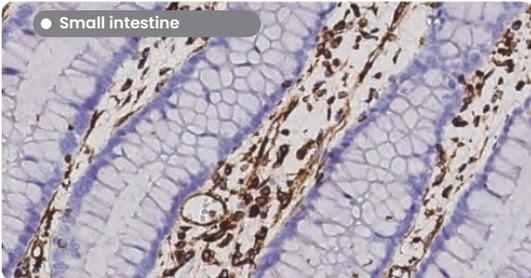
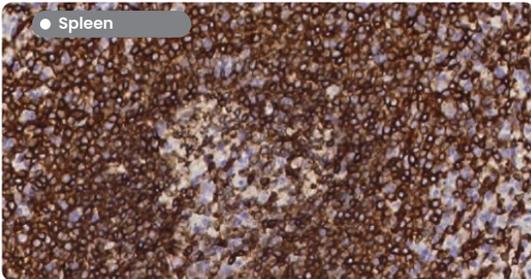
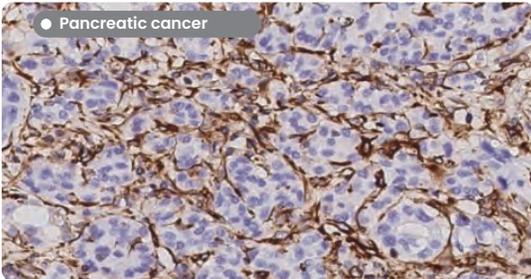
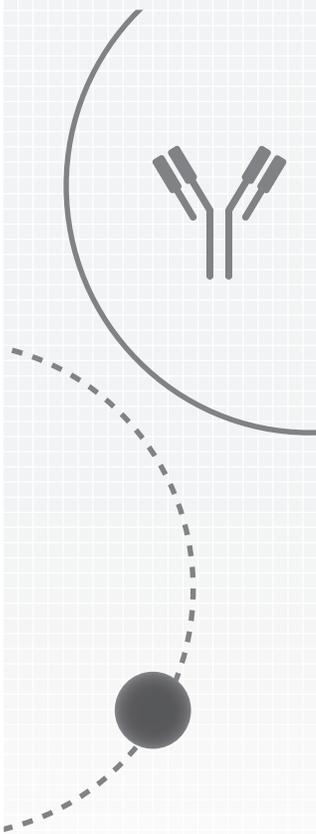
Tonsil

Cell cytoplasm

Cell membrane

Vimentin is a filament protein. The expression of Vimentin is observed in non-muscle cells. Vimentin IHC is often performed for the diagnosis of mesenchymal cell tumors.

CD79A is normally expressed in B-cells. CD79A IHC is performed to characterize B-cell related neoplasms.



CD45/LCA Antibody

CD21 Antibody

- Cat#
- Description
- Isotype
- Concentration
- Usage
- Positive Control
- Cellular Localization
- Background

100342-R145

10811-MM28

Rabbit MAb

Mouse MAb

IgG

IgG1

1:100-1:500

1:30-1:100

Paraffin section

Paraffin section

Tonsil

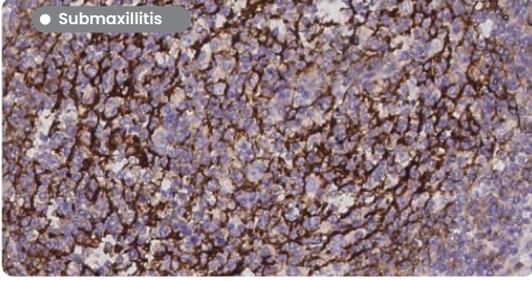
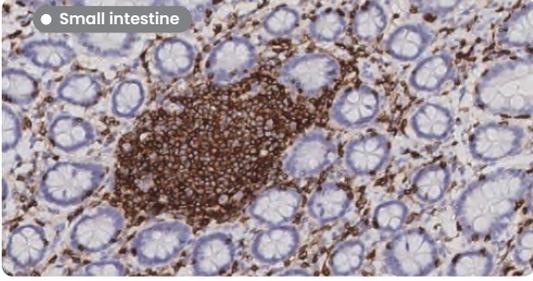
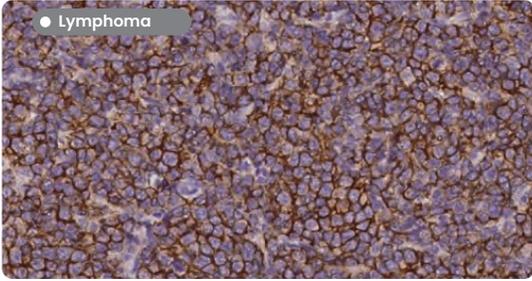
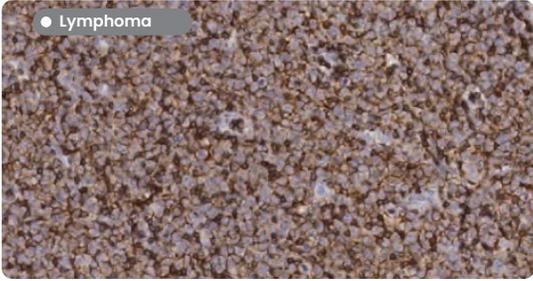
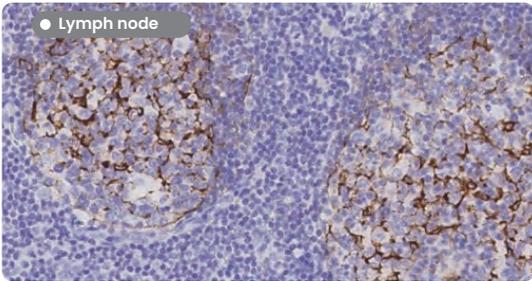
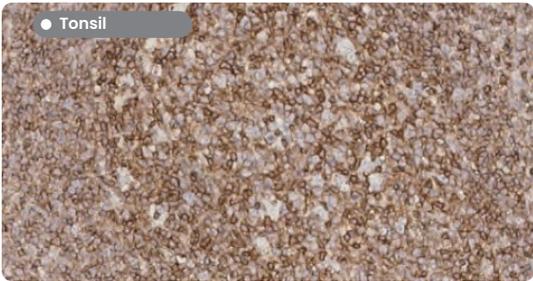
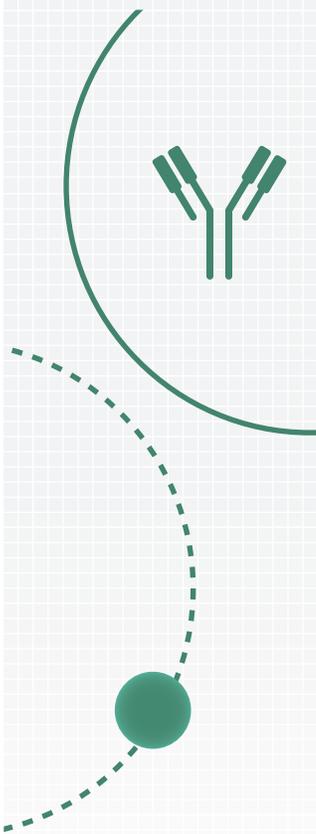
Tonsil

Cell membrane

Cell membrane

CD45 is a hematopoietic cell marker. IHC with a panel of antibodies including CD45, cytokeratin, Vimentin, and S100, is often used for the preliminary classification of tumor cell origin.

CD21 is expressed in follicular dendritic cells. CD21 staining is used for the diagnosis of follicular dendritic cell sarcoma.



Ki-67 Antibody

MSLN Antibody

- Cat#
- Description
- Isotype
- Concentration
- Usage
- Positive Control
- Cellular Localization
- Background

100130-MM19

13128-MM01

Mouse MAb

Mouse MAb

IgG1

IgG1

1:500-1:1000

1:30-1:100

Paraffin section

Paraffin section

Tonsil

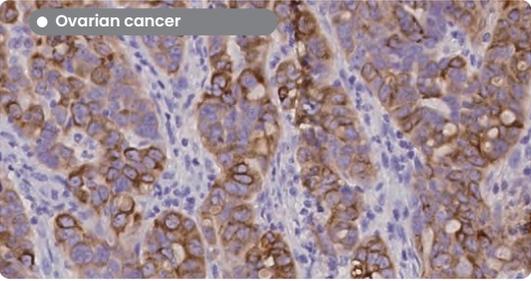
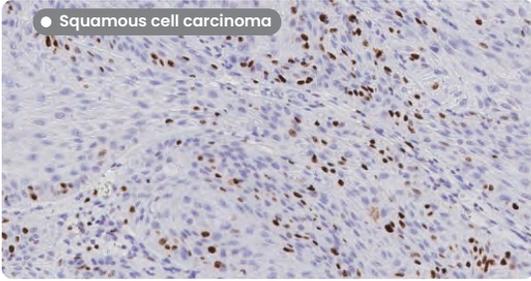
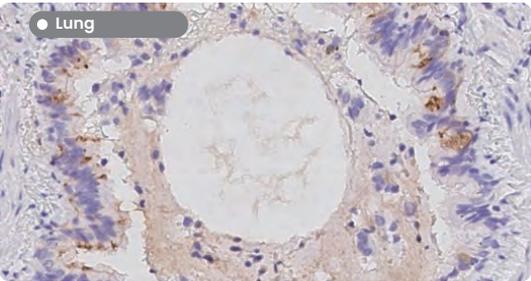
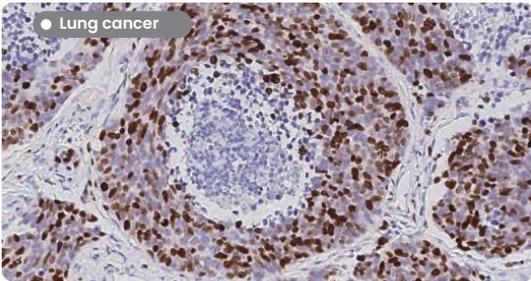
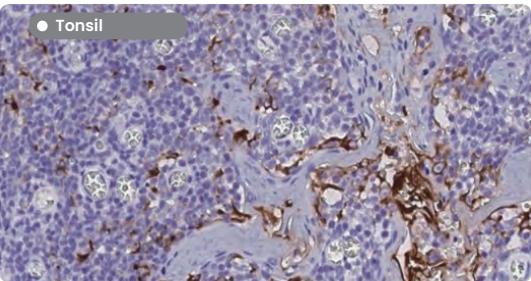
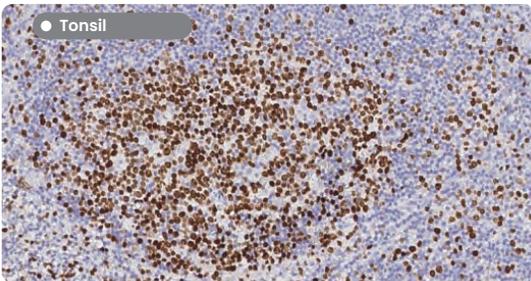
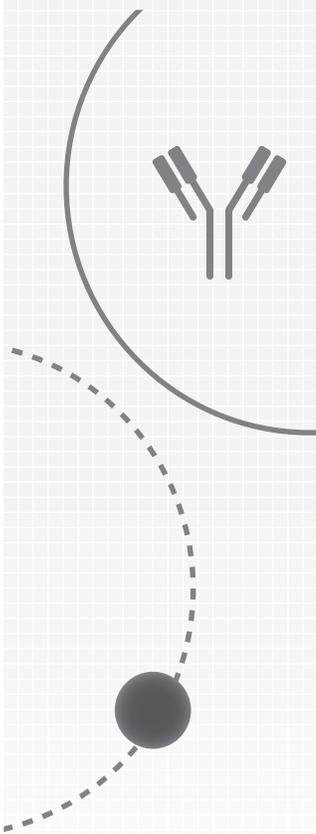
Ovarian cancer

Cell nucleus

Cell cytoplasm and membrane

Ki67 is a nuclear marker for proliferating cells. Ki67 staining is often performed in pathology studies of cancerous tissues. The percentage of the Ki67 positive cells in a tumor, or the "Ki67 index", is often used for the classification of tumor grade.

Mesothelin (MSLN) is a biomarker for mesothelioma. In addition, the expression of MSLN can also be found in tumors of ovary and pancreas.



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