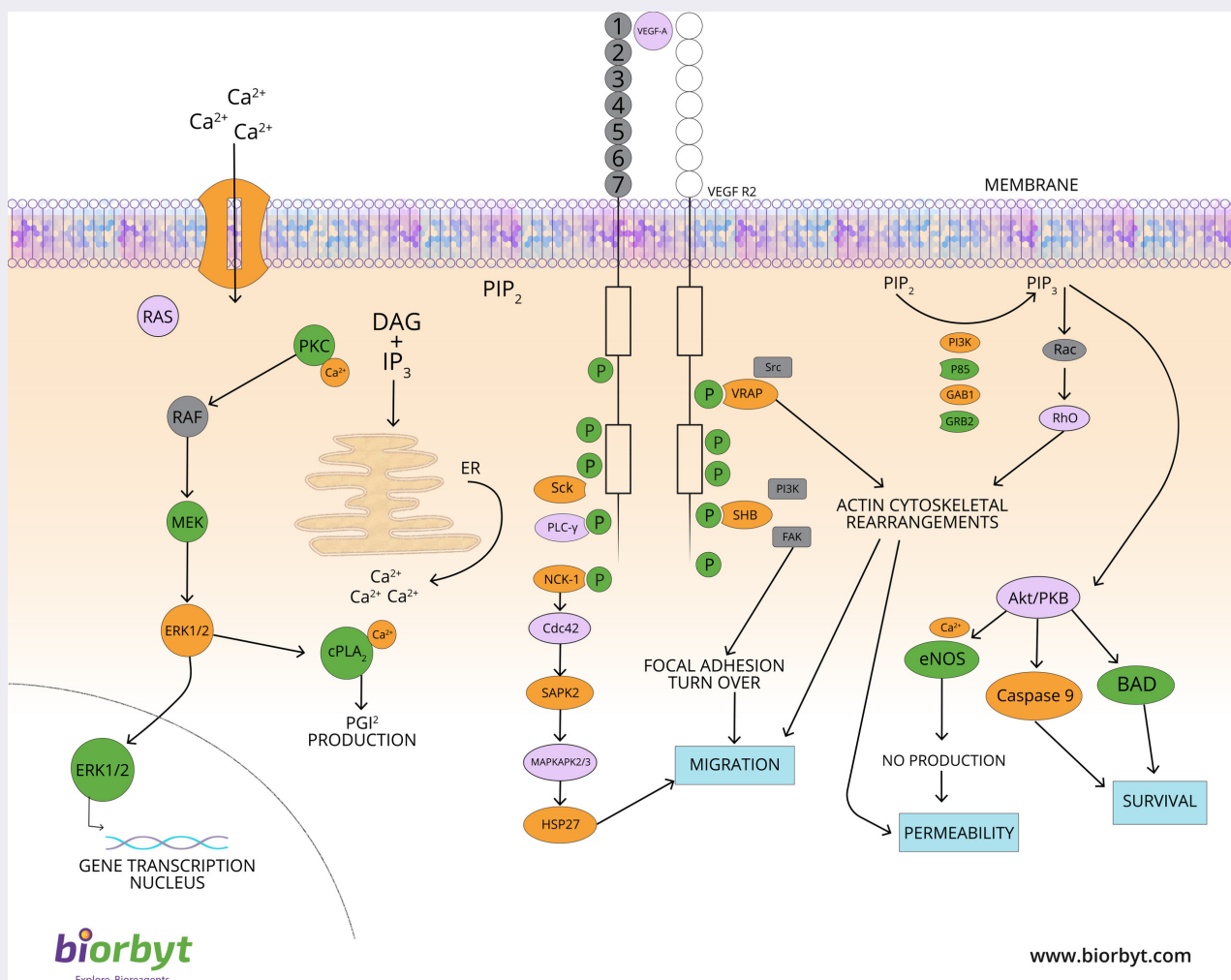


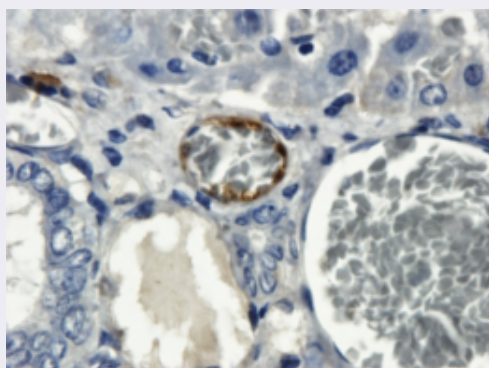
# VEGF Signaling Pathway

Vascular endothelial growth factors (VEGFs) are master regulators of vascular development and of blood and lymphatic vessel function during health and disease in the adult. VEGF is produced by several cell types such as fibroblasts, inflammatory cells, and many tumor cells, often in response to increasing tumor hypoxia via the HIF-1a pathway.

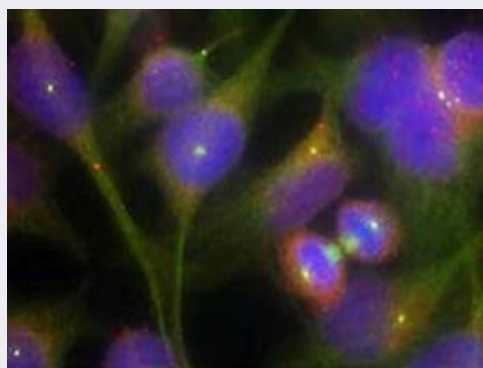
Currently, the VEGF family is composed of five structurally related factors: VEGFA (most well characterized and denoted VEGFA165), VEGFB, VEGFC, VEGFD and placenta growth factor (PlGF). The VEGF family members are homodimeric polypeptides although naturally occurring heterodimers of VEGFA and PlGF have been described. The main VEGF receptor on endothelial cells is VEGFR2. VEGFR2 is essential for endothelial cell biology during development and in the adult, in physiology and pathology. More is known about VEGFR2 signaling than for the other VEGF receptors.



Activation of the VEGF pathway has been identified in many disease processes ranging from cancer to autoimmunity, retinopathy and many more. The development of highly specific inhibitors of both the VEGF ligand (bevacizumab, VEGF-Trap, ranibizumab) as well as the VEGF receptor (cediranib, pazopanib, sorafenib, sunitinib, vandetanib, axitinib, telatinib, semaxanib, motesanib, vatalanib, Zactima) relates to the central role that this pathway plays in disease.



*VEGFR2 antibody*  
Catalog Number: orb11557  
Reactivity: Canine, Human, Mouse, Porcine, Rat  
Tested applications: ICC, IF, IHC-P, P-ELISA, WB



*FAK antibody*  
Catalog Number: orb14551  
Reactivity: Human, Mouse, Rat  
Tested applications: ICC, IF, IHC-P, WB

## VEGF Pathway Products – A Very Small Selection!

Catalogue Code	Description	Product Type
orb11557	VEGFR2	Antibody
orb76050	Human VEGFR2	ELISA Kit
orb437591	Porcine VEGFR2	ELISA Kit
orb244321	Human VEGFR2	Protein
orb191500	VEGF	Antibody
orb359168	Human VEGFA	Active Protein
orb10845	HSP27	Antibody
orb50172	Human HSP27	ELISA Kit
orb14551	FAK	Antibody
orb379158	Ras	Antibody

## Helping your research

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