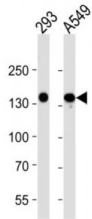


## Vascular Endothelial Growth Factor Receptor 3 (VEGFR3) Antibody

Catalogue No.: abx034933



Tyrosine-protein kinase that acts as a cell-surface receptor for VEGFC and VEGFD, and plays an essential role in adult lymphangiogenesis and in the development of the vascular network and the cardiovascular system during embryonic development. Promotes proliferation, survival and migration of endothelial cells, and regulates angiogenic sprouting. Signaling by activated FLT4 leads to enhanced production of VEGFC, and to a lesser degree VEGFA, thereby creating a positive feedback loop that enhances FLT4 signaling. Modulates KDR signaling by forming heterodimers. The secreted isoform 3 may function as a decoy receptor for VEGFC and/or VEGFD and play an important role as a negative regulator of VEGFC-mediated lymphangiogenesis and angiogenesis. Binding of vascular growth factors to isoform 1 or isoform 2 leads to the activation of several signaling cascades; isoform 2 seems to be less efficient in signal transduction, because it has a truncated C-terminus and therefore lacks several phosphorylation sites. Mediates activation of the MAPK1/ERK2, MAPK3/ERK1 signaling pathway, of MAPK8 and the JUN signaling pathway, and of the AKT1 signaling pathway. Phosphorylates SHC1. Mediates phosphorylation of PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase. Promotes phosphorylation of MAPK8 at 'Thr-183' and 'Tyr-185', and of AKT1 at 'Ser-473'.

<b>Target:</b>	VEGFR3
<b>Reactivity:</b>	Human
<b>Host:</b>	Mouse
<b>Clonality:</b>	Monoclonal
<b>Tested Applications:</b>	WB, IHC, FCM
<b>Recommended dilutions:</b>	Optimal dilutions/concentrations should be determined by the end user.
<b>Immunogen:</b>	Human VEGFR3.
<b>Purification:</b>	Purified Mouse Monoclonal Antibody.
<b>Isotype:</b>	IgG <sub>2a</sub>
<b>Conjugation:</b>	Unconjugated

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**Specificity:** Purified His-tagged VEGFR3 protein was used to produced this monoclonal antibody.

**Storage:** Aliquot and store at -20 °C. Avoid repeated freeze/thaw cycles.

**Swiss Prot:** [P35916](#)

**Enzyme Commission Number:** EC 2.7.10:::EC 2.7.10.1:::EC 2.7.10

**NCBI Accession:** NP\_002011.2, NP\_891555.2

**Buffer:** PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.

**Note:** This product is for research use only.