German Research Products - GRP GmbH

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Product Datasheet

VEGFR2 Polyclonal Antibody GRP606

Description Tyrosine-protein kinase that acts as a cell-surface receptor for

VEGFA, VEGFC and VEGFD. Plays an essential role in the regulation of angiogenesis, vascular development, vascular permeability, and embryonic hematopoiesis. Promotes

proliferation, survival, migration and differentiation of endothelial cells. Promotes reorganization of the actin cytoskeleton. Isoforms lacking a transmembrane domain, such as isoform 2 and isoform 3, may function as decoy receptors for VEGFA, VEGFC and/or VEGFD. Isoform 2 plays an important role as negative regulator of VEGFA- and VEGFC-mediated lymphangiogenesis by limiting the amount of free VEGFA and/or VEGFC and preventing their binding to FLT4. Modulates FLT1 and FLT4 signaling by forming

heterodimers. Binding of vascular growth factors to isoform 1 leads to the activation of several signaling cascades. Activation of PLCG1 leads to the production of the cellular signaling molecules diacylglycerol and inositol 1,4,5-trisphosphate and the activation of protein kinase C. Mediates activation of MAPK1/ERK2, MAPK3/ERK1 and the MAP kinase signaling pathway, as well as of

the AKT1 signaling pathway. Mediates phosphorylation of PIK3R1,

the regulatory subunit of phosphatidylinositol 3-kinase, reorganization of the actin cytoskeleton and activation of

PTK2/FAK1. Required for VEGFA-mediated induction of NOS2 and NOS3, leading to the production of the signaling molecule nitric oxide (NO) by endothelial cells. Phosphorylates PLCG1. Promotes phosphorylation of FYN, NCK1, NOS3, PIK3R1, PTK2/FAK1 and

Species/Host Rabbit

Reactivity Human, Mouse, Rat, Pig

Conjugation Unconjugated

Tested Applications FC, IHC-P, WB

KLH conjugated synthetic peptide derived from human VEGFR2 **Immunogen**

(public_immunogen_range: 150-190/1356)

Form/Appearance Agueous buffered solution containing 1% BSA, 50% glycerol and

0.09% sodium azide.

Concentration 1ug/ul

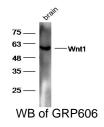
Storage Store at -20°C for 12 months.

Note For research use only.

Isotype IgG

Clonality Polyclonal

Purity Purified by Protein A.





IHC-P of GRP606