anti-VEGFR2 (Flk-1)

Cat #: HM1394
Rabbit polyclonal IgG
0.2 µg/µl, store at 4 °C

For research use only

BACKGROUND
VEGF receptor 2 (Flk-1) is a member of a receptor tyrosine kinase family whose activation plays an essential role in a large number of biological processes such as embryonic development, wound healing, cell proliferation, migration and differentiation. This family of receptor tyrosine kinases are characterized by the presence of seven immunoglobulin-like sequences in their extracellular domain. These receptors exhibit high degrees of sequence relatedness to each other as well as lesser degrees of relatedness to the class III receptors including CSF-1/Fms, PDGR, SLFR/Kit and Flt-3/Flk-2. Like other growth factor receptors, upon ligand binding VEGF receptor 2 dimerises and is autophosphorylated on multiple tyrosine residues. These sites can be involved in the regulation of kinase activity or serve as binding sites for SH2 and phosphotyrosine binding containing signaling proteins. Phosphorylation of Tyrosines 1054 and 1059 in the activation loop is required for activation of VEGF receptor 2 and its intrinsic tyrosine kinase activity.

SPECIFICITY
This antibody reacts specifically with Flk-1 of mouse, rat and human origin by Western blotting, immunoprecipitation and immunohistochemistry.

Molecular Weight of Flk-1: 195 and 235 kDa. Western blotting positive controls: mouse liver

IMMUNOGEN
A peptide corresponding to amino acids 931-997 of mouse Flk-1.

STORAGE
This antibody is stable for 12 months when stored at 2-8°C.

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