AM01291PU-N

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Monoclonal Antibody to CD309 / VEGFR-2 / Flk-1 - Purified

Alternate names: FLK1, KDR, Kinase NYK, Kinase insert domain receptor, Protein-tyrosine kinase receptor Flk-1, VEGF Receptor 2, VEGFR2, Vascular endothelial growth factor receptor 2

Catalog No.: AM01291PU-N

Quantity: 0.1 mg

Concentration: 1.0 mg/ml

Background: VEGFR2 has high affinity binding sites for VEGF and displays ligand dependent phosphorylation on binding. It mediates mitogenesis and chemotaxis in intact cells. Germline mutagenesis in mice leads to a complete failure to develop endotheial cells and embryos die before embryonic day 10.

Uniprot ID: P35918

NCBI: 10090

Host / Isotype: Rat / IgG2b

Clone: 4H3B6H9

Immunogen: The extracellular domaint of murine Vascular endothelial growth factor receptor 2.

Format: **State:** Liquid purified Ig fraction.
Buffer System: PBS containing 0.05% Bronidox as preservative.

Applications: ELISA.
Western Blot: 5 µg/ml.
Immunoprecipitation: 10 µg/ml of lysate.
Flow Cytometry: Use 10 µl of 1/10 diluted antibody to label 1x10e6 cells in 100 µl.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: This antibody recognises the extracellular domain of murine Vascular endothelial growth factor 2 (VEGFR2) also known as FLK 1.
Species: Mouse.
Other species not tested.

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: 1. Stacker SA, Vitali A, Caesar C, Domagala T, Groenen LC, Nice E, et al. A mutant form of vascular endothelial growth factor (VEGF) that lacks VEGF receptor-2 activation retains the ability to induce vascular permeability. J Biol Chem. 1999 Dec 3;274(49):34884-92. PubMed PMID: 10574962.
2. Oelrichs RB, Reid HH, Bernard O, Ziemiecki A, Wilks AF. NYK/FLK-1: a putative receptor

protein tyrosine kinase isolated from E10 embryonic neuroepithelium is expressed in endothelial cells of the developing embryo. Oncogene. 1993 Jan;8(1):11-8. PubMed PMID: 8423988.
3. Zachary I, Gliki G. Signaling transduction mechanisms mediating biological actions of the vascular endothelial growth factor family. Cardiovasc Res. 2001 Feb 16;49(3):568-81. PubMed PMID: 11166270.