

## Product datasheet for **AM50324PU-S**

### VEGF Receptor 2 (KDR) Mouse Monoclonal Antibody [Clone ID: KDR721]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	KDR721
Applications:	FC, IF, IHC, IP
Recommended Dilution:	<b>ELISA:</b> Use BSA free Antibody for coating. <b>Flow Cytometry:</b> 0.5-1 µg/million cells. <b>Immunofluorescence:</b> 0.5-1 µg/ml. <b>Functional Studies:</b> Use BSA and Azide Antibody. <b>Immunoprecipitation:</b> 0.5-1 µg/ 500 µg protein lysate. <b>Immunohistochemistry on Frozen Sections:</b> 0.5-1.0 µg/ml for 30 minutes at RT. <b>Positive Control:</b> HUVEC cells, Human lymph nodes and tonsils.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Human VEGF-R2 protein.
Specificity:	Recognizes Human VEGF-R2 / CD309 / Flk-1 / KDR3. Other species not tested. <b>Cellular Localization:</b> Cell surface.
Formulation:	10mM PBS State: Purified State: Liquid purified IgG fraction from Bioreactor Concentrate Stabilizer: 0.05% BSA Preservative: 0.05% Sodium Azide
Concentration:	lot specific
Purification:	Protein A/G Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	150-230 kDa



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**Gene Name:** kinase insert domain receptor

**Database Link:** [Entrez Gene 3791 Human P35968](#)

**Background:** CD309, also known as VEGF-R2, KDR3, and Flk-1 (mouse), is a type I transmembrane glycoprotein. It is a member of the CSF-1/PDGF receptor family of type III tyrosine kinase receptors. Human VEGF-R2 is mainly expressed by endothelial cells, embryonic tissues, and megakaryocytes. It plays an important role in the regulation of angiogenesis, vasculogenesis, and vascular permeability. The ligands of VEGF-R2 include VEGF-A, VEGF-C, VEGF-D, and VEGF splice isoforms. Ligation of VEGF-R2 with its ligands results in the receptor dimerization and auto-phosphorylation, stimulating endothelial cell proliferation and migration.

**Synonyms:** VEGFR2, FLK1, KDR, VEGF Receptor 2