

Product datasheet for **DM3503**

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	KDREWC
Applications:	ELISA, FC, WB
Recommended Dilution:	ELISA (1-15 µg/ml) Western blotting (2-20 µg/ml), FACS analysis and Cell Sorting (3-20 µg/ml).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Human soluble extracellular KDR protein (D7) (110 kDa)
Specificity:	The monoclonal antibody will detect native Human VEGFR-2/KDR in ELISA experiments and on the surface of different Human cell types.
Formulation:	PBS pH 7.4 containing no preservative State: Purified State: Lyophilized purified IgG fraction from Cell Culture Supernatant
Reconstitution Method:	Restore in distilled sterile water to 0.1-1.0 mg/ml
Purification:	Protein G Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	kinase insert domain receptor
Database Link:	Entrez Gene 3791 Human P35968



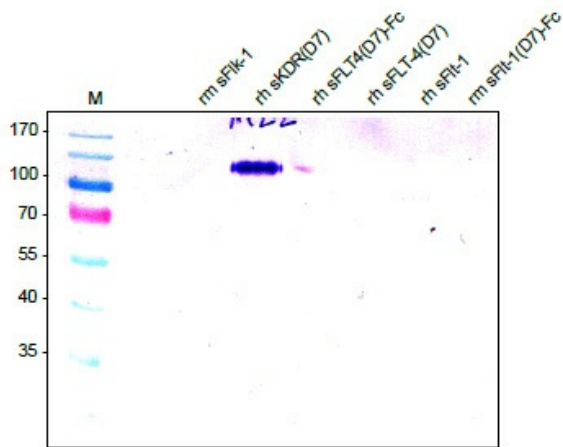
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Background:

Endothelial cells express three different vascular endothelial growth factor (VEGF) receptors, belonging to the family of receptor tyrosine kinases (RTKs). They are named VEGFR-1 (Flt-1), VEGFR-2 (KDR/Flk-1), VEGFR-3 (Flt-4). Their expression is almost exclusively restricted to endothelial cells, but VEGFR-1 can also be found on monocytes. All VEGF-receptors have seven immunoglobulin-like extracellular domains, a single transmembrane region and an intracellular split tyrosine kinase domain. VEGFR-2 has a lower affinity for VEGF than the Flt-1 receptor, but a higher signaling activity. Mitogenic activity in endothelial cells is mainly mediated by VEGFR-2 leading to their proliferation. The binding of VEGF165 to VEGFR-2 is dependent on heparin.

Synonyms:

VEGFR2, FLK1, KDR, VEGF Receptor 2

Product images:

Western analysis of recombinant human and mouse soluble VEGF receptors using a monoclonal antibody directed against human recombinant sKDR (D7). There is no cross reactivity with mouse sFlk-1 as well as with human sFLT-4 and human and mouse sFlt-1 visible.