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VEGFR2, human recombinant protein

Fetal liver kinase 1, Kinase insert domain receptor, Protein-tyrosine kinase receptor flk-1

Catalog # PBV10508r

Specification

VEGFR2, human recombinant protein - Product info

Primary Accession	P35968
Calculated MW	116 kDa KDa

VEGFR2, human recombinant protein - Additional Info

Gene ID	3791
Gene Symbol	VEGFR2

Other Names
Fetal liver kinase 1, Kinase insert domain receptor, Protein-tyrosine kinase receptor flk-1

Gene Source	Human
Source	Insect cells
Assay&Purity	SDS-PAGE; ≥95%
Assay2&Purity2	HPLC;
Recombinant	Yes
Results	10.0 ng/ml
Sequence	ASVGLPSVSL DLPRLSIQKD ILTIKANTTL QITCRGQRDL DWLWPNNQSG SEQRVEVTEC SDGLFCKTLT IPKVIGNDTG AYKCFYRETD LASVIYVYVQ DYRSPFIASV SDQHGVVYIT ENKNKTVVIP CLGSISNLNV SLCARYPEKR FVPDGNRISW DSKKGFTIPS YMISYAGMVF CEAKINDESY QSIMYIVVVV GYRIYDVVLS PSHGIELSVG EKLVLNCTAR TELNVGIDFN WEYPSSKHQH KKLVNRDLKT QSGSEMKKFL STLTIDGVTR SDQGLYTCAA SSGLMTKKNS FVRVHEKPFV AFGSGMESLV EATVGERVRI PAKYLGYPPP EIKWYKNGIP LESNHTIKAG HVLTIMEVSE RDTGNYTVIL TNPISKEKQS HVVSLVVYVP TPQIGEKSLI SPVDSYQYGT TQTLTCTVYA IPPPHHIHWY WQLEEECANE PSQAVSVTNP YPCEEWRSVE DFQGGNKIEV NKNQFALIEG KNKTVSTLVI QAANVSALYK CEAVNKVGRG ERVISFHVTR GPEITLQPDM QPTEQESVSL WCTADRSTFE NLTWYKLGPQ PLPIHVGELP TPVCKNLDTL WKLNATMFSN STNDILIMEL KNASLQDQGD YVCLAQDRKT KKRHCVVRQL TVLERVAPTI TGNLENQTTS IGESIEVSCT ASGNPPPQIM WFKDNETLVE DSGIVLKDGN RNLTIRRVRK EDEGLYTCQA CSVLGCAKVE AFFIIEGA

Application Notes
Reconstitute in sterile water to a concentration not less than 0.1 mg/ml. This solution can then be

stored at 4°C for 2-7 days. For future use for future use; For long term storage it is recommended to add a carrier protein (0.1 % HSA or BSA) then store at –20°C. Avoid freeze-thaw cycles.

Format
Lyophilized protein

Storage
-20°C; KDR was lyophilized from a sterile solution containing 25 mM MES pH 5.5 and 100 mM NaCl.

VEGFR2, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

VEGFR2, human recombinant protein - Images

VEGFR2, human recombinant protein - Background

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. No naturally occurring, secreted forms of VEGFR-2 have so far been reported. The binding of VEGF165 to VEGFR-2 is dependent on heparin. Soluble VEGFR-2 Human Recombinant produced in baculovirus is monomeric, glycosylated, polypeptide having a molecular mass of 116 kDa. The soluble receptor protein contains only the first 7 extracellular domains, which contain all the information necessary for ligand binding. The sKDR is purified by proprietary chromatographic techniques.

VEGFR2, human recombinant protein - References

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Albuquerque R.J.,et al.Nat. Med. 15:1023-1030(2009).
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Hillier L.W.,et al.Nature 434:724-731(2005).