

Product datasheet for DA3530

CD309 / VEGFR-2 / Flk-1 (D1-D7) Human Protein

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Recombinant Proteins
Description:	CD309 / VEGFR-2 / Flk-1 (D1-D7) human recombinant protein, 5 μg
Species:	Human
Expression Host:	Insect
Expression cDNA Clone or AA 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 TFVRVHEKPF VAFGSGMESL VEATVGERVR IPAKYLGYPP PEIKWYKNGI PLESNHTIKA GHVLTIMEVS ERDTGNYTVI LTNPISKEKQ SHVVSLVVVV PPQIGEKSLI 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
Predicted MW:	116 kDa
Purity:	>95% pure as by SDS-PAGE and silver stain.
Buffer:	Presentation State: Purified State: Lyophilized protein Buffer System: 25 mM MES, 150 mM NaCl, pH 5.5 Stabilizer: None
Bioactivity:	Biological: Measured by its ability to inhibit the VEGF165-induced proliferation in Human Umbilical Vein Endothelial (HUVE) cells. Inhibition of VEGF165-induced proliferationof HUVECs byrecombinant sVEGFR-2/KDR (Cat No DA3530).
Endotoxin:	< 0.1 ng per µg of sKDR
Reconstitution Method:	The lyophilized Human sKDR is soluble in water and most aqueous buffers. Restore in water or PBS to a concentration of not lower than 0.1 mg/ml.
Preparation:	Lyophilized protein

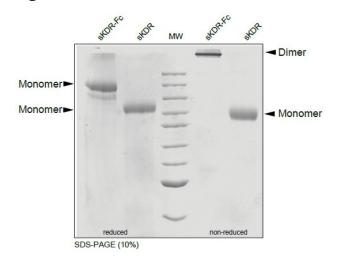


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	D309 / VEGFR-2 / Flk-1 (D1-D7) Human Protein – DA3530
Protein Description	 Recombinant Human soluble Endothelial Growth Factor Receptor-2 (sKDR D1-7) is produced as a non-chimeric protein in a monomeric form. The soluble receptor protein consists of all 7 extracellular domains, which contain all the information necessary for high affinity ligand binding. The receptor monomers have a mass of approximately 116kDa. <u>Result by N-terminal sequencing</u>: ASVGLPSVSL <u>Length</u>: 738 amino acids.
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.
RefSeq:	<u>NP 002244</u>
Locus ID:	3791
UniProt ID:	<u>P35968</u>
Cytogenetics:	4q12
Synonyms:	CD309; FLK1; VEGFR; VEGFR2
Summary:	Vascular endothelial growth factor (VEGF) is a major growth factor for endothelial cells. This gene encodes one of the two receptors of the VEGF. This receptor, known as kinase insert domain receptor, is a type III receptor tyrosine kinase. It functions as the main mediator of VEGF-induced endothelial proliferation, survival, migration, tubular morphogenesis and sprouting. The signalling and trafficking of this receptor are regulated by multiple factors, including Rab GTPase, P2Y purine nucleotide receptor, integrin alphaVbeta3, T-cell protein tyrosine phosphatase, etc Mutations of this gene are implicated in infantile capillary hemangiomas. [provided by RefSeq, May 2009]
Protein Families:	Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, Endocytosis, Focal adhesion, VEGF signaling pathway

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