

Recombinant Rhesus macaque KDR Protein, His-tagged

Cat. No. KDR-477R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rhesus macaque KDR protein with His tag was expressed in HEK293.
Species	Rhesus macaque
Source	HEK293
ProteinLength	1356
Description	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.
Form	Lyophilized
Molecular Mass	85.2 kDa
AA Sequence	MASKVLLAVALWLCVETRAASVGLPSVSLDLPRLSIQKDILTIKANTTLQITCRGQRDL DWLWPNNQSGSEQRVEVTECSDGLFCKTLTIPKVIGNDTGAYKCFYRETDLASVIYV YVQDYRSPFIASVSDQHGVVYITENKNKTVVIPCLGSISNLNVSLCARYPEKRFVPDG NRISWDSKKGFTIPSYMISYAGMVFCEAKINDESYQSIMYIVVVVGYRIYDVVLSPSH

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GVELSVGEKLVLNCTARTELVNVDGDFNWEYPSSKHQHKLVNRDLKTQSGSEMKKF
 LSTLTIDGVTRSDQGLYTCAASSGLMTKKNSTFVRVHEKPFVAFSGSMESLVEATVG
 ERVRIPVKYLGYPPEIKWYKNGIPLESNHTVKVGHVLTIMEVSESDTGNVTVILTNP
 SKEKQSHVSVLVVYVPPQIGEKSLISPVDSYQYGTQTTLCTVYAIPPPHHIHWYWQ
 LEEECNPESQAVSVTNPYPCEEWRSVEDFQGGNKIEVNKNQFALIEGKNKTVSTL
 VIQAANVSALYKCEAVNVKVGGRVISFHVTRGPEITLQPDLPTEQESVSLWCTAD
 KSTFENLTWYKLGPPQPLPVHVGELPTPVCKNLDTLWKLNATIFSNTNDILIMELKNA
 SLQDQGDYVCVAQDRKTKKRHCVVRLTLVLERVAPMITGNLENQTTSIGETIEVST
 ASGNPPPQIMWFKDNETLVEDSGIVLKDGNRNLTIKRVKEDGLYTCQACSVLGC
 AKVEAFFIIEGAQEKTNLEIIILVGTAVIAMFFWLLVILRTVVRANGGELKTGYLSIVM
 DPDELPLDEHCERLPYDASKWEFPRDRLKLGKPLGRGAFGQVIEADAFGIDKTATC
 RTVAVKMLKEGATHSEHRALMSELKILIHIGHHLNVNLLGACTKPGGPLMVIVEFCK
 FGNLSTYLRSKRNEFVPYKTKGARFRQGKDYVGAIPVDLKRRLDSITSSQSSASSGF
 VEEKSLSDVEEEEAPEDLYKDFTLEHLICYSFQVAKGMEFLASRKCIHRDLAARNILL
 SEKNVVKICDFGLARDIYKDPDYVRKGDARLPLKWMAPETIFDRVYTIQSDVWSFGV
 LLWEIFSLGASPYPGVKIDEEFCRRLKEGTRMRAPDYTTPEMYQTMDCWHGEPSSQ
 RPTFSELVEHLGNLLQANAQQDGKDYIVLPISETLSMEEDSGLSLPTSPVSCMEEEE
 VCDPKFHYDNTAGISQYLQNSKRKSRPVSVKTFEDIPLEEPEVKVIPDDNQTDSGMV
 LASEELKTLEDRTKLAPSFSGMVSSKSRESVASEGSNQTSQGYQSGYHSDDTDTTVY
 SSEEAECLKLIEIGVQTGSTAQILQPDSGTTLSPPV

Purity > 98%

Applications WB; ELISA; FACS; FC

Stability This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

Storage At -20 centigrade.

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Concentration	1 mg/mL
Storage Buffer	PBS (pH 7.4-7.5). Sterile-filtered colorless solution.
Reconstitution	Reconstitute in sterile distilled H ₂ O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

Gene Name	KDR kinase insert domain receptor (a type III receptor tyrosine kinase) [Macaca mulatta (Rhesus monkey)]
Official Symbol	KDR
Synonyms	KDR; kinase insert domain receptor (a type III receptor tyrosine kinase); vascular endothelial growth factor receptor 2; FLK-1;
Gene ID	698293
mRNA Refseq	XM_015138690
Protein Refseq	XP_014994176
UniProt ID	A0A2K5VE63

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