

Product Information

MemDX™ Membrane Protein Human KDR (Kinase insert domain receptor) expressed in insect for Antibody Discovery

Cat. No.: **MP0145Q**

This product is for research use only and is not intended for diagnostic use.

This product is a 105 kDa Human KDR membrane protein expressed in Insect. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

KDR

Protein Length

Partial

Protein Class

Druggable Genome, ES Cell Differentiation/IPS, Protein Kinase, Transmembrane

Molecular Weight

105 kDa

TMD

1

Sequence

MQSKVLLAVALWLCVETRAASVGLPSVSLDLPRLSIQKDILTIKANTTLQITCRGQRDL
WLWPNNQSGSEQRVEVTECSDFCKTLTIPKVGINDTGAYKCFYRETDLASVIYVYVQD
YRSPFIASVSDQHGVVYITENKNKTVIPCLGSSISNLNVSLCARYPEKRFVPDGNRISWD
SKKGFTIPSYMISYAGMVCFEAKINDESYQSIMYIVVVVGYRIYDVVLSPSHGIELSVGE
KLVLNCTARTELVGIDFNWEYPSSKHQHKLVNRDLKTQSGSEMKKFLSTLTIDGVTRS
DQGLYTCAASSGLMTKKNSTFVRVHEKPFVAFGSGMESLVEATVGERVRIPAKYLGYP
EIKWYKNGIPLESNHTIKAGHVLTIMEVSRDGTGNYTVILTNPISKEKQSHVVSLVYV
PQIGEKSLIPVDSYQYGTQTCTVYAIPPPHHIHWYWLQEEECANEPSQAVSVTNPY
PCEEWRSVEDFQGGNKIEVNKNQFALIEGKNKTVSTLVIQAANVSALYKCEAVNKVGRGE
RVISFHVTRGPEITLQPDMPTEQESVSLWCTADRSTFENLTWYKLGPPQPLPIHVGELPT
PVCKNLDTLWKLNATMFSNSTNDILIMELKNASLQDQGDYVCLAQDRKTKKRHCVRQLT
VLERVAPTITGNLENQTTSIGESIEVSCTASGNPPPPQIMWFKDNETLVESGIVLKDGNR
NLTIRVRKEDEGLYTQCACSVLGCACVEAFFIIEGAQEKTNLEIILVGTAVIAMFFWL
LLVILRTVKRANGGELKTGYLSIVMDPDELPLDEHCERLPYDASKWEFPRDRLKLGKPL
GRGAFGQVIEADAFGIDKTATCRTVAVKMLKEGATHSEHRALMSELKILIHIGHHLNVN
LLGACTKPGGPLMVIVEFCKFGNLSTYLSKRNEFVPYKTKGARFRQGDYVGAIPVDLK
RRLDSITSSQSSASSGFVEEKSLSDVEEEEAPEDLYKDFTLLEHLICYSFQVAKGMEFLA
SRKCIHRDLAARNILLSEKNVVKICDFGLARDIYKDPDYVRKGDARLPLKWMAPETIFDR
VYTIQSDVWSFGVLLWEIFSLGASYPGVKIDEEFCRRLKEGTRMRAPDYTTPEMYQTML

DCWHGEPSQRPTFSELVEHLGNLLQANAQQDGKDYIVLPISSETLSMEEDSGLSLPTSPVS
CMEEEEVCDPKFHYDNTAGISQYLQNSKRKSRPVSVKTFEDIPLEEPEVKVIPDDNQTD
GMVLASEELKTLEDRTKLSPSFGGMVPSKSRESVASEGSNQTSQGYQSGYHSDDTDTTVYS
SEEAELLKLIEIGVQTGSTAQILQPDSGTTLSSPPV

Product Description

Expression Systems

Insect

Form

Powder

Endotoxin

< 0.1 ng per µg

Purity

>95% by SDS-PAGE and silver stain

Buffer

25 mM MES, 100 mM NaCl, pH 5.5

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

KDR

Full Name

Kinase insert domain receptor

Introduction

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.

Alternative Names

CD309; FLK1; VEGFR; VEGFR2; vascular endothelial growth factor receptor 2; fetal liver kinase-1; kinase insert domain receptor (a type III receptor tyrosine kinase); protein-tyrosine kinase receptor Flk-1; soluble VEGFR2; tyrosine kinase growth factor receptor

Gene ID

[3791](#)

UniProt ID

[P35968](#)