

Product Information

MemDX™ Membrane Protein Human KDR (Kinase insert domain receptor) for Antibody

Discovery

Cat. No.: **MP0136Q**

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

This product is a 116 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

116 kDa

TMD

1

Sequence

MQSKVLLAVALWLCVETRAASVGLPSVSLDLPRLSIQKDILTIKANTTLQITCRGQRDLDWLWPNNQSGSEQRVEVTECSDGLFCKT
YRSPFIASVSDQHGVVYITENKNKTVVIPCLGSISNLNVSLCARYPEKRFVPDGNRISWDSKKGFTIPSYMISYAGMVFCEAKINDES

Product Description

Expression Systems

Insect

Form

Powder

Endotoxin

< 0.1 ng per µg

Purity

>95% pure as by SDS-PAGE and silver stain

Buffer

25 mM MES, 150 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 α V β 3, 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; VEGFR-2; FLK-1; Kinase insert domain receptor; KDR

Gene ID

[3791](#)

UniProt ID

[P35968](#)