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Product Information

Recombinant Anti-Human NRP1 Antibody

Cat. No.: **MOM-18264**
This product is for research use only and is not intended for diagnostic use.

Product Overview

Recombinant Human Antibody is against Human NRP1, expressed in Chinese Hamster Ovary cells(CHO)

Antigen Description

The membrane-bound isoform 1 is a receptor involved in the development of the cardiovascular system, in angiogenesis, in the formation of certain neuronal circuits and in organogenesis outside the nervous system. It mediates the chemorepulsant activity of semaphorins. It binds to semaphorin 3A, The PLGF-2 isoform of PGF, The VEGF-165 isoform of VEGF and VEGF-B. Coexpression with KDR results in increased VEGF-165 binding to KDR as well as increased chemotaxis. It may regulate VEGF-induced angiogenesis.The soluble isoform 2 binds VEGF-165 and appears to inhibit its binding to cells. It may also induce apoptosis by sequestering VEGF-165. May bind as well various members of the semaphorin family. Its expression has an averse effect on blood vessel number and integrity.

Target

NRP1

Source

Human

Species Reactivity

Human

Type

Human IgG1 - kappa

Expression Host

CHO

Predicted N terminal

H chain:EVQLVES; L Chain: DIQMTQS

Purity

>95.0% as determined by analysis by RP-HPLC.

Applications

Suitable for use in WB, FC, IP, ELISA, Neut, FuncS, IF and most other immunological methods.

Storage

Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing of samples.

ANTIGEN GENE INFOMATION

Gene Name

NRP1 neuropilin 1 [Homo sapiens]

Official Symbol

NRP1

Synonyms

NRP1; neuropilin 1; neuropilin-1; CD304; NRP; VEGF165R; transmembrane receptor; vascular endothelial cell growth factor 165 receptor; NP1; BDCA4; DKFZp781F1414; DKFZp686A03134;

Gene ID

8829

mRNA Refseq

NM_001024628

Protein Refseq

NP_001019799

MIM

602069

UniProt ID

O14786

Chromosome Location

10p12

Pathway

Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem; Axon guidance, organism-specific biosystem; CHL1 interactions, organism-specific biosystem; CRMPs in Sema3A signaling, organism-specific biosystem; Developmental Biology, organism-specific biosystem; HTLV-I infection, organism-specific biosystem;

Function

coreceptor activity; cytokine binding; growth factor binding; growth factor binding; heparin binding; metal ion binding; receptor activity; semaphorin receptor activity; vascular endothelial growth factor-activated receptor activity;

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