

Human CellExp™ CD304 / NRP1 / Neurophilin-1, Fc Tag, Mouse Recombinant

03/19

CATALOG NO: P1409-10 10 µg
 P1409-50 50 µg

ALTERNATE NAMES: NRP1, Neuropilin-1, NRP, VEGF165R, CD304

MOL. WT. This protein carries a mouse IgG2a Fc tag at the C-terminus. The protein has a calculated MW of 120.5 kDa. The protein migrates as 125 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

SOURCE: HEK 293 cells

PURITY: >90% SDS-PAGE

ENDOTOXIN: Less than 0.1 EU per µg by the LAL method.

FORM: Lyophilized

FORMULATION: Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, pH 7.5. Normally trehalose is added as protectant before lyophilization.

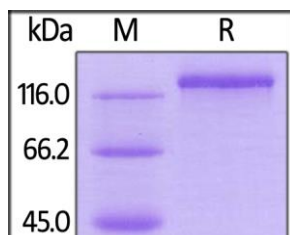
RECONSTITUTION: Reconstitute in sterile deionized water to the desired protein concentration.

SPECIFIC ACTIVITY: Immobilized Human VEGF165, Tag Free at 2 µg/mL (100 µL/well) can bind Mouse NRP1, Mouse IgG2a Fc Tag with a linear range of 0.5-4 ng/mL

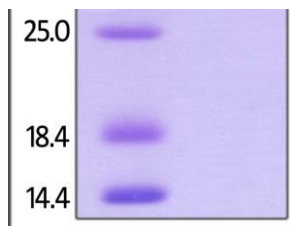
STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -80°C and use within 3 months. Avoid repeated freezing and thawing cycles.

DESCRIPTION: Neuropilin-1 (NRP1) is also known as Vascular endothelial cell growth factor 165 receptor (VEGF165R), CD antigen CD304, which belongs to the neuropilin family. 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.

AMINO ACID SEQUENCE: AA Phe 22 - Pro 856

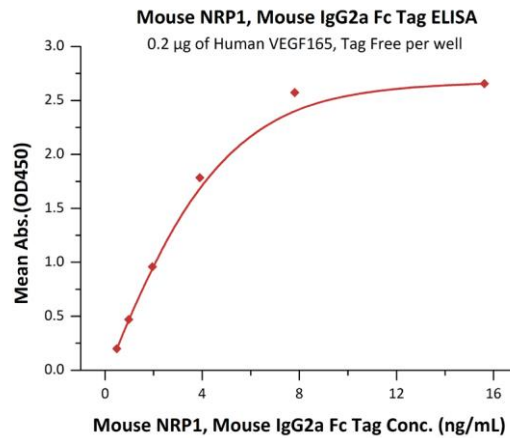


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Mouse NRP1, Mouse IgG2a Fc Tag on SDS-PAGE under reducing (R) condition.





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RELATED PRODUCTS:

Neuropilin-1 Antibody (3856)
Neuropilin-1 Blocking Peptide (3856BP)
Human CellExp™ CD304 / NRP1 / Neuropilin-1, human recombinant (7375)

FOR RESEARCH USE ONLY! Not to be used on humans.

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