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37-1168: Mouse Nogo Receptor / NOGOR / RTN4R Recombinant Protein (His Tag)(Discontinued)

Reactivity: Mouse

Alternative Name: NgR Protein, Mouse; NgR1 Protein, Mouse; NOGOR Protein, Mouse; Rtn4r Protein, Mouse

Description

Source: HEK293 Cells

Reticulon 4 receptor (RTN4R), also known as Nogo-66 Receptor (NgR), is a glycosylphosphoinositol (GPI)-anchored protein that belongs to the Nogo recptor family including three members. Mouse RTN4R cDNA contains 1 LRP (Leucine-rich) repeats. RTN4R is expressed predominantly in neurons and their axons in the central nervous systems (CNS). As a receptor for myelin-derived proteins Nogo, myelin-associated glycoprotein (MAG), and myelin oligodendrocyte glycoprotein (OMG), RTN4R mediates axonal growth inhibition and may play a role in regulating axonal regeneration and plasticity in the adult CNS. It has been shown that RTN4R performs its inhibitory actions by interacting with the p75 neurotrophin receptor (p75NTR), a TNFRSF member also known for modulating the activities of the Trk family and for inducing apoptosis in neurons and oligodendrocytes. RTN4R may be proposed as a potential drug target for treatment of various neurological conditions such as spinal cord injury, CNS lesions, peripheral nerve injury, stroke and Alzheimer's disease (AD). Additionally, RTN4R may play a role in regulating the function of the gap junctions.

Product Info

Amount: Mouse Nogo Receptor / NOGOR / RTN4R Recombinant Protein (His Tag)(Discontinued) / 100 µg

Purification: > 97 % as determined by SDS-PAGE

Formulation Lyophilized from sterile PBS, pH 7.4

Content: Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before

lyophilization.

Storage condition : Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be

aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Amino Acid: Met1-Ser447

Application Note

1. Measured by its binding ability in a functional ELISA. 2. Immobilized recombinant Mouse RTN4R at 2 $\tilde{A} \square \hat{A} \mu g/ml$ (100 $\tilde{A} \square \hat{A} \mu L/well$) can bind biotinylated human RTN4 (GST Tag) with a linear range of 0.04-0.625 $\tilde{A} \square \hat{A} \mu g/ml$. Endotoxin :< 1.0 EU per $\tilde{A} \square \hat{A} \mu g$ of the protein as determined by the LAL method

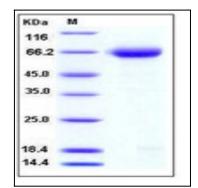


Fig 1: Mouse Nogo Receptor / NOGOR / RTN4R Recombinant Protein (His Tag)