9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

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
Content :	Formulation Lyophilized from sterile PBS, pH 7.4 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 ÃÂµg/ml (100 ÃÂµL/well) can bind biotinylated human RTN4 (GST Tag) with a linear range of 0.04-0.625 ÃÂµg/ml.
Endotoxin :< 1.0 EU per ÃÂµg of the protein as determined by the LAL method

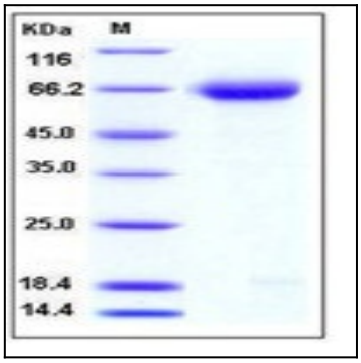

Fig 1: Mouse Nogo Receptor / NOGOR / RTN4R Recombinant Protein (His Tag)