

Datasheet for ABIN7320404
RTN4R Protein (His tag)[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	RTN4R
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This RTN4R protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse Nogo Receptor/NgR Protein (His Tag)(Active)
Sequence:	Met 1-Ser 447
Characteristics:	A DNA sequence encoding the mature form of mouse RTN4R (NP_075358.1) (Met 1-Ser 447) was expressed, fused with a polyhistidine tag at the C-terminus.
Purity:	> 97 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	1. Measured by its binding ability in a functional ELISA.2. Immobilized recombinant Mouse RTN4R at 2 µg/ml (100 µl/well) can bind biotinylated human RTN4 (GST Tag) with a linear range of 0.04-0.625 µg/ml.

Target Details

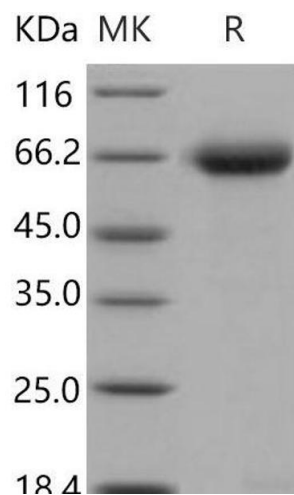
Target:	RTN4R
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Target Details

Alternative Name:	Nogo Receptor/NgR (RTN4R Products)
Background:	<p>Background: Reticulon 4 receptor (RTN4R), also known as Nogo-66 Receptor (NgR), is a glycosylphosphoinositol (GPI)-anchored protein that belongs to the Nogo receptor family including three members. Mouse RTN4R cDNA contains 10 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.</p> <p>Synonym: NgR,NgR1,NOGOR,Rtn4r</p>
Molecular Weight:	47 kDa
NCBI Accession:	NP_075358
Pathways:	Neurotrophin Signaling Pathway

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>



Western Blotting

Image 1.