

Datasheet for ABIN7317859  
**RTN4R Protein (His tag,Fc Tag)**



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## Overview

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

## Product Details

Purpose:	Recombinant Human Nogo Receptor/NgR Protein (His & Fc Tag)(Active)
Sequence:	Met 1-Ser 447
Characteristics:	A DNA sequence encoding the mature form of human RTN4R (NP_075380.1) (Met 1-Ser 447) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to bind recombinant human RTN4 in a functional ELISA.

## Target Details

Target:	RTN4R
Alternative Name:	Nogo Receptor/NgR ( <a href="#">RTN4R Products</a> )

## Target Details

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: Reticulon-4 Receptor, Nogo Receptor, NgR, Nogo-66 Receptor, RTN4R, NOGOR</p>
Molecular Weight:	73 kDa
NCBI Accession:	<a href="#">NP_075380</a>
Pathways:	<a href="#">Neurotrophin Signaling Pathway</a>

## Application Details

Restrictions:	For Research Use only
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## 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 &lt; -20°C for 3 months.</p>