

Product Information

Recombinant Anti-Human RTN4 Antibody

Cat. No.: **MOM-18242**

This product is for research use only and is not intended for diagnostic use.

Product Overview

Recombinant Human Antibody is specific to Human RTN-4, expressed in Chinese Hamster Ovary cells(CHO)

Antigen Description

Developmental neurite growth regulatory factor with a role as a negative regulator of axon-axon adhesion and growth, and as a facilitator of neurite branching. Regulates neurite fasciculation, branching and extension in the developing nervous system. Involved in down-regulation of growth, stabilization of wiring and restriction of plasticity in the adult CNS. Regulates the radial migration of cortical neurons via an RTN4R-LINGO1 containing receptor complex (By similarity). Isoform 2 reduces the anti-apoptotic activity of Bcl-xl and Bcl-2. This is likely consecutive to their change in subcellular location, from the mitochondria to the endoplasmic reticulum, after binding and sequestration. Isoform 2 and isoform 3 inhibit BACE1 activity and amyloid precursor protein processing.

Target

RTN-4

Immunogen

The details of the immunogen for this antibody are not available.

Source

Human

Species Reactivity

Human

Type

Human IgG4 - kappa

Expression Host

CHO

Predicted N terminal

H chain: EVQLVES; L Chain: EIVLTQS

Purity

Purity >95% by SDS-PAGE.

Applications

Suitable for use in ELISA, IP, FC, FuncS, Neut, IF and most other immunological methods.

Storage

Store at 4°C for up to 3 months. For longer term storage aliquot into small volumes and store at -20°C.

ANTIGEN GENE INFORMATION

Gene Name

[RTN4 reticulon 4 \[Homo sapiens \]](#)

Official Symbol

RTN4

Synonyms

RTN4; reticulon 4; reticulon-4; ASY; KIAA0886; NOGO; NSP CL; foocen; Human NogoA; reticulon 5; My043 protein; neurite outgrowth inhibitor; neurite growth inhibitor 220; neuroendocrine-specific protein C homolog; NSP; NOGOC; RTN-X; NOGO-A; NSP-CL; Nogo-B; Nogo-C; RTN4-A; RTN4-C; RTN4-B1; RTN4-B2; NI220/250; Nbla00271; Nbla10545;

Gene ID

[57142](#)

mRNA Refseq

[NM_007008](#)

Protein Refseq

[NP_008939](#)

MIM

[604475](#)

UniProt ID

Q9NQC3

Chromosome Location

2p14-p13

Pathway

Axonal growth inhibition (RHOA activation), organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signalling by NGF, organism-specific biosystem; p75 NTR receptor-mediated signalling, organism-specific biosystem; p75(NTR)-mediated signaling, organism-specific biosystem; p75NTR regulates axonogenesis, organism-specific biosystem;

Function

protein binding; protein complex binding;