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# Product Information

## Recombinant Anti-Human RTN4 Antibody Fab Fragment

Cat. No.: **MOM-18242-F(E)**
This product is for research use only and is not intended for diagnostic use.

### Product Overview

Recombinant Human Antibody Fab Fragment is directed against 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

Fab Fragment based on Human IgG4 - kappa

### Expression Host

CHO

### Predicted N terminal

H chain: EVQLVES; L Chain: EIVLTQS

### Purity

>95.0%. Determined by analysis by RP-HPLC & analysis by SDS-PAGE.

### Applications

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

### Storage

Store at -20°C. Avoid multiple freeze/thaw cycles.

## ANTIGEN GENE INFOMATION

**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;

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