

Rtn-3 Mouse mAb

CatalogNo: YM0567

| Key Features

Host Species

- Mouse

Reactivity

- Human

Applications

- IHC,IF,ELISA

| Recommended Dilution Ratios

IHC 1:200-1:1000

ELISA 1:10000

IF 1:50-200

| Storage

Storage*

-15°C to -25°C/1 year(Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

| Basic Information

Clonality

Monoclonal

| Immunogen Information

Immunogen

Purified recombinant fragment of Rtn-3 expressed in E. Coli.

Specificity

Rtn-3 Monoclonal Antibody detects endogenous levels of Rtn-3 protein.

| Target Information

Gene name

RTN3

Protein Name

Reticulon-3

Organism**Gene ID****UniProt ID**

Human

[10313;](#)[O95197;](#)

Mouse

[Q9ES97;](#)**Cellular
Localization**

Endoplasmic reticulum membrane ; Multi-pass membrane protein . Golgi apparatus membrane ; Multi-pass membrane protein .

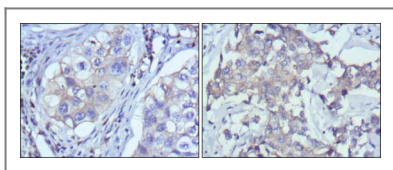
Tissue specificity

Isoform 3 is widely expressed, with highest levels in brain, where it is enriched in neuronal cell bodies from gray matter (at protein level). Three times more abundant in macula than in peripheral retina. Isoform 1 is expressed at high levels in brain and at low levels in skeletal muscle. Isoform 2 is only found in melanoma.

Function

Function:May be involved in membrane trafficking in the early secretory pathway. Inhibits BACE1 activity and amyloid precursor protein processing. May induce caspase-8 cascade and apoptosis. May favor BCL2 translocation to the mitochondria upon endoplasmic reticulum stress. In case of enteroviruses infection, RTN3 may be involved in the viral replication or pathogenesis.,induction:By endoplasmic reticulum stress (at protein level).,miscellaneous:The sequence shown here is derived from an EMBL/GenBank/DDBJ third party annotation (TPA) entry.,similarity:Contains 1 reticulon domain.,subunit:Homodimer. Interacts with RTN4. Isoform 3 interacts with BACE1, BACE2, BCL2 and FADD. Interacts with Coxsackievirus A16, enterovirus 71 and poliovirus P2C proteins.,tissue specificity:Isoform 3 is widely expressed, with highest levels in brain, where it is enriched in neuronal cell bodies from gray matter (at protein level). Three times more abundant in macula than in peripheral retina. Isoform 1 is expressed at high levels in brain and at low levels in skeletal muscle. Isoform 2 is only found in melanoma.,

Validation Data



Immunohistochemistry analysis of paraffin-embedded human lung cancer (left) and breast cancer (right) with DAB staining using Rtn-3 Monoclonal Antibody.

Contact information

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Rtn-3 Mouse mAb

