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# Immunotag™ Rtn-3 Monoclonal Antibody

## Antibody Specification

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| Catalog No. | ITM0567 |
| Product Description | Immunotag™ Rtn-3 Monoclonal Antibody |
| Size | 50 µg, 100 µg |
| Conjugation | HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647 |
| IMPORTANT NOTE | This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return. |
| Target Protein | RTN3 |
| Clonality | Monoclonal |
| Storage/Stability | -20°C/1 year |
| Application | IHC-p,ELISA |
| Recommended Dilution | Immunohistochemistry: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications. |
| Concentration | 1 mg/ml |
| Reactive Species | Human |
| Host Species | Mouse |
| Immunogen | Purified recombinant fragment of Rtn-3 expressed in E. Coli. |
| Specificity | Rtn-3 Monoclonal Antibody detects endogenous levels of Rtn-3 protein. |
| Purification | Affinity purification |
| Form | Ascitic fluid containing 0.03% sodium azide. |
| Gene Name | RTN3 |
| Accession No. | O95197 Q9ES97 |
| Alternate Names | RTN3; ASYIP; NSPL2; Reticulon-3; Neuroendocrine-specific protein-like 2; NSP-like protein 2; Neuroendocrine-specific protein-like II; NSP-like protein II; NSPLII |

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| Description | reticulon 3(RTN3) Homo sapiens This gene belongs to the reticulon family of highly conserved genes that are preferentially expressed in neuroendocrine tissues. This family of proteins interact with, and modulate the activity of beta-amyloid converting enzyme 1 (BACE1), and the production of amyloid-beta. An increase in the expression of any reticulon protein substantially reduces the production of amyloid-beta, suggesting that reticulon proteins are negative modulators of BACE1 in cells. Alternatively spliced transcript variants encoding different isoforms have been found for this gene, and pseudogenes of this gene are located on chromosomes 4 and 12. [provided by RefSeq, May 2012], |
| Cell Pathway/ Category | Regulation of Microtubule Dynamics, Regulation of Actin Dynamics, SAPK_JNK, Stem cell pathway, Adherens_Junction |
| Protein Expression | Brain,Cervix,Epithelium,Eye,Kidney,Lymph,Retina, |
| Subcellular Localization | Golgi membrane,extracellular space,endoplasmic reticulum,endoplasmic reticulum membrane,plasma membrane,endomembrane system,integral component of membrane,extracellular exosome, |
| Protein 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., |
| Usage | For Research Use Only! Not for diagnostic or therapeutic procedures. |