

Rabbit RTN4IP1 Polyclonal Antibody | anti-RTN4IP1 antibody

Anti-RTN4IP1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127780	Rabbit	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

RTN4IP1; Polyclonal Antibody; Anti-RTN4IP1 Antibody Picoband; Follicular dendritic cell secreted peptide; FDC secreted protein; FDC-SP; FDCSP; C4orf7; UNQ733/PRO1419; anti-RTN4IP1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Abundantly expressed in tonsil, lymph node, and trachea; strong expression in prostate; lower expression in thyroid, stomach, and colon.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-RTN4IP1 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Immunogen	E coli-derived human RTN4IP1 recombinant protein (Position: M1-K381).
Subcellular Localization	Secreted
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
Protein Function	Can bind to the surface of B-lymphoma cells, but not T- lymphoma cells, consistent with a function as a secreted mediator acting upon B-cells.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of K562 cells using anti-RTN4IP1 antibody (AAA127780).Overlay histogram showing K562 cells stained with AAA127780 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-RTN4IP1 Antibody (AAA127780, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of RTN4IP1 using anti-RTN4IP1 antibody (AAA127780).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: rat liver tissue lysates,Lane 2: rat kidney tissue lysates,Lane 3: mouse kidney tissue lysates,Lane 4: mouse kidney tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-RTN4IP1 antigen affinity purified polyclonal antibody (#AAA127780) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for RTN4IP1 at approximately 44 kDa. The expected band size for RTN4IP1 is at 44 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RTN4IP1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-RTN4IP1 antibody	Primary Antibodies; Immunology; Secreted Molecules
References	1. Angebault, C., Guichet, P.-O., Talmat-Amar, Y., Charif, M., Gerber, S., Fares-Taie, L., Gueguen, N., Halloy, F., Moore, D., Amati-Bonneau, P., Manes, G., Hebrard, M., and 21 others. Recessive mutations in RTN4IP1 cause isolated and syndromic optic neuropathies. Am. J. Hum. Genet. 97: 754-760, 2015. Note: Erratum: Am. J. Hum. Genet. 97: 769 only, 2015. 2. Charif, M., Nasca, A., Thompson, K., Gerber, S., Makowski, C., Mazaheri, N., Bris, C., Goudenege, D., Legati, A., Maroofian, R., Shariati, G., Lamantea, E., and 30 others. Neurologic phenotypes associated with mutations in RTN4IP1 (OPA10) in children and young adults. JAMA Neurol. 75: 105-113, 2018. 3. Hartz, P. A. Personal Communication. Baltimore, Md. 10/28/2010.

NCBI AND UNIPROT INFORMATION

NCBI GI #	47519420
NCBI GeneID	84816
NCBI Accession #	NP_116119.2
NCBI GenBank Nucleotide #	NM_032730.4
UniProt Accession #	Q8WWV3; Q8N9B3; Q8WZ66; Q9BRA4
Molecular Weight	24,936 Da
NCBI Official Full Name	reticulon-4-interacting protein 1, mitochondrial
NCBI Official Synonym Full Names	reticulon 4 interacting protein 1
NCBI Official Symbol	RTN4IP1
NCBI Official Synonym Symbols	NIMP
NCBI Protein Information	reticulon-4-interacting protein 1, mitochondrial; NOGO-interacting mitochondrial protein
UniProt Protein Name	Reticulon-4-interacting protein 1, mitochondrial
UniProt Gene Name	RTN4IP1
UniProt Synonym Gene Names	NIMP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/rtn4ip1-antibody-flow-cytometry-western-blot-elisa/127780>