

Rabbit anti-Human RTKN Polyclonal Antibody | anti-RTKN antibody

Anti-RTKN Antibody Picoband

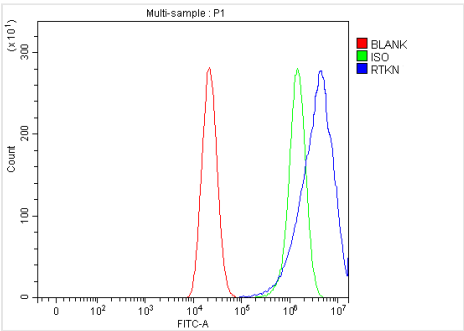
CATALOG # AAA127459	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Flow Cytometry, Functional Assay, Western Blot
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PRODUCT SYNONYMS

RTKN; Polyclonal Antibody; Anti-RTKN Antibody Picoband; BAG family molecular chaperone regulator 5; C-C motif chemokine ligand 16 ; C-C motif chemokine 16; Chemokine CC-4; HCC-4; Chemokine LEC; IL-10-inducible chemokine; LCC-1; Liver-expressed chemokine; Lymphocyte and monocyte chemoattractant; LMC; Monotactin-1; MTN-1; NCC-4; Small-inducible cytokine A16; CCL16; ILINCK; NCC4; SCYA16; anti-RTKN antibody

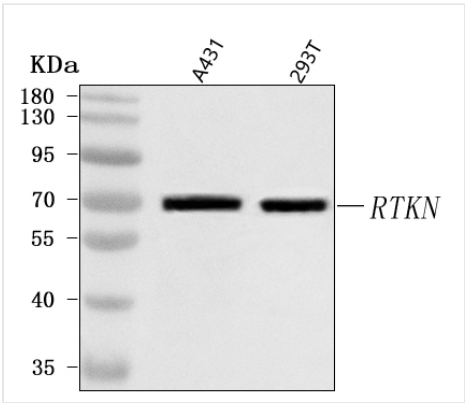
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Mainly expressed in liver, also found in spleen and thymus. Highly expressed in LPS- and IFN-gamma- activated monocytes, weakly in some lymphocytes, including natural killer cells, gamma-delta T-cells, and some T-cell clones.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-RTKN antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human RTKN recombinant protein (Position: R255-Q554).
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	Shows chemotactic activity for lymphocytes and monocytes but not neutrophils. Also shows potent myelosuppressive activity, suppresses proliferation of myeloid progenitor cells. Recombinant SCYA16 shows chemotactic activity for monocytes and THP-1 monocytes, but not for resting lymphocytes and neutrophils. Induces a calcium flux in THP-1 cells that were desensitized by prior expression to RANTES.
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.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of CACO-2 cells using anti-RTKN antibody (AAA127459). Overlay histogram showing CACO-2 cells stained with AAA127459 (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-RTKN Antibody (AAA127459, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of RTKN using anti-RTKN antibody (AAA127459). 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: human A431 whole cell lysates, Lane 2: human 293T whole cell 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-RTKN antigen affinity purified polyclonal antibody (#AAA127459) 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 RTKN at approximately 70 kDa. The expected band size for RTKN is at 63 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RTKN 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-RTKN antibody	Primary Antibodies; Angiogenesis; Cardiovascular; Chemokines; Cytokines; Immunology; Innate Immunity; Macrophage/Inflammation
References	1. Jang, W., Weber, J. S., Harkins, E. B., Meisler, M. H. Localization of the rhotekin gene RTKN on the physical maps of mouse chromosome 6 and human chromosome 2p13 and exclusion as a candidate for mnd2 and LGMD2B. Genomics 40: 506-507, 1997. 2. Reid, T., Furuyashiki, T., Ishizaki, T., Watanabe, G., Watanabe, N., Fujisawa, K., Morii, N., Madaule, P., Narumiya, S. Rhotekin, a new putative target for Rho bearing homology to a serine/threonine kinase, PKN, and rhophilin in the Rho-binding domain. J. Biol. Chem. 271: 13556-13560, 1996. 3. Sudo, K., Ito, H., Iwamoto, I., Morishita, R., Asano, T., Nagata, K. Identification of a cell polarity-related protein, Lin-7B, as a binding partner for a Rho effector, rhotekin, and their possible interaction in neurons. Neurosci. Res. 56: 347-355, 2006.

NCBI AND UNIPROT INFORMATION

NCBI GI #	62739179
NCBI GeneID	6242
NCBI Accession #	NP_001015055.1
NCBI GenBank Nucleotide #	NM_001015055.1
UniProt Accession #	Q9BST9; Q8WVN1; Q96PT6; Q9HB05; H7BXD4
Molecular Weight	56,666 Da
NCBI Official Full Name	rhotekin isoform a
NCBI Official Synonym Full Names	rhotekin

NCBI Official Symbol	RTKN
NCBI Protein Information	rhotekin; RTKN
UniProt Protein Name	Rhotekin
UniProt Gene Name	RTKN
UniProt Entry Name	RTKN_HUMAN

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://www.aaabiotech.com/polyclonal/rtn-antibody-flow-cytometry-western-blot-elisa/127459>