

Rabbit RLN3 Polyclonal Antibody | anti-RLN3 antibody

Anti-RLN3 Antibody Picoband

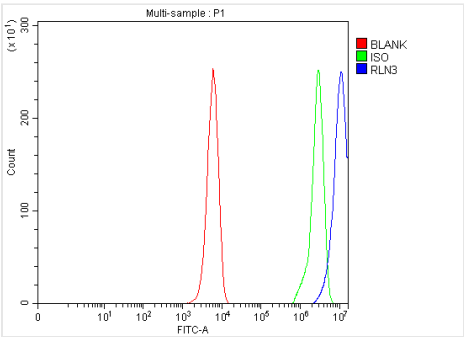
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127302	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

RLN3; Polyclonal Antibody; Anti-RLN3 Antibody Picoband; Serine protease HTRA3; atypical chemokine receptor 2; Atypical chemokine receptor 2; C-C chemokine receptor D6; Chemokine receptor CCR-10; Chemokine receptor CCR-9; Chemokine-binding protein 2; Chemokine-binding protein D6; ACKR2; CCBP2; CCR10; CMKBR9; D6; anti-RLN3 antibody

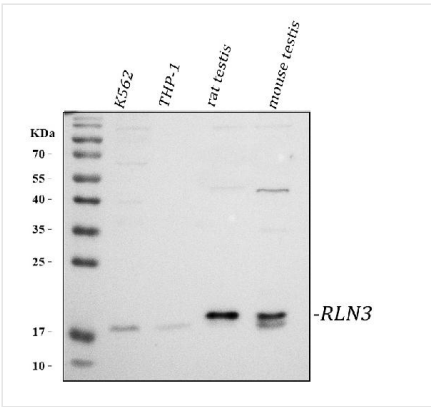
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Found in endothelial cells lining afferent lymphatics in dermis and lymph nodes. Also found in lymph nodes subcapsular and medullary sinuses, tonsillar lymphatic sinuses and lymphatics in mucosa and submucosa of small and large intestine and appendix. Also found in some malignant vascular tumors. Expressed at high levels in Kaposi sarcoma-related pathologies. Expressed on apoptotic neutrophils (at protein level). Expressed primarily in placenta and fetal liver, and found at very low levels in the lung and lymph node.
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-RLN3 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human RLN3 recombinant protein (Position: R26-C142).
Subcellular Localization	Cell membrane. Multi-pass membrane protein. Early endosome. Recycling endosome
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	Atypical chemokine receptor that controls chemokine levels and localization via high-affinity chemokine binding that is uncoupled from classic ligand-driven signal transduction cascades, resulting instead in chemokine sequestration, degradation, or transcytosis. Also known as interceptor (internalizing receptor) or chemokine-scavenging receptor or chemokine decoy receptor. Acts as a receptor for chemokines including CCL2, CCL3, CCL3L1, CCL4, CCL5, CCL7, CCL8, CCL11, CCL13, CCL17, CCL22, CCL23, CCL24, SCYA2/MCP-1, SCY3/MIP-1-alpha, SCYA5/RANTES and SCYA7/MCP-3. Upon active ligand stimulation, activates a beta-arrestin 1 (ARRB1)-dependent, G protein-independent signaling pathway that results in the phosphorylation of the actin-binding protein cofilin (CFL1) through a RAC1-PAK1-LIMK1 signaling pathway. Activation of this pathway results in up-regulation of ACKR2 from endosomal compartment to cell membrane, increasing its efficiency in chemokine uptake and degradation. By scavenging chemokines in tissues, on the surfaces of lymphatic vessels, and in placenta, plays an essential role in the resolution (termination) of the inflammatory response and in the regulation of adaptive immune responses. Plays a major role in the immune silencing of macrophages during the resolution of inflammation. Acts as a regulator of inflammatory leukocyte interactions with lymphatic endothelial cells (LECs) and is required for immature/mature dendritic cells discrimination by LECs.
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 K562 cells using anti-RLN3 antibody (AAA127302). Overlay histogram showing K562 cells stained with AAA127302 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-RLN3 Antibody (AAA127302, 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 RLN3 using anti-RLN3 antibody (AAA127302). 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 K562 whole cell lysates, Lane 2: human THP-1 whole cell lysates, Lane 3: rat testis tissue lysates, Lane 4: mouse testis 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-RLN3 antigen affinity purified polyclonal antibody (#AAA127302) 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 RLN3 at approximately 18-19 kDa. The expected band size for RLN3 is at 15 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RLN3 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-RLN3 antibody	Primary Antibodies; Chemokines; Immunology; Innate Immunity
References	1. Bathgate, R. A. D., Samuel, C. S., Burazin, T. C. D., Layfield, S., Claasz, A. A., Reytoomas, I. G. T., Dawson, N. F., Zhao, C., Bond, C., Summers, R. J., Parry, L. J., Wade, J. D., Tregear, G. W. Human relaxin gene 3 (H3) and the equivalent mouse relaxin (M3) gene: novel members of the relaxin peptide family. J. Biol. Chem. 277: 1148-1157, 2002.2. Liu, C., Eriste, E., Sutton, S., Chen, J., Roland, B., Kuei, C., Farmer, N., Jornvall, H., Sillard, R., Lovenberg, T. W. Identification of relaxin-3/INSL7 as an endogenous ligand for the orphan G-protein-coupled receptor GPCR135. J. Biol. Chem. 278: 50754-50764, 2003.

NCBI AND UNIPROT INFORMATION

NCBI GI #	909618058
NCBI GeneID	117579
NCBI Accession #	NP_001298126.1
NCBI GenBank Nucleotide #	NM_001311197.1
UniProt Accession #	Q8WXF3; Q6UXW5
Molecular Weight	15,451 Da
NCBI Official Full Name	relaxin-3
NCBI Official Synonym Full Names	relaxin 3
NCBI Official Symbol	RLN3

NCBI Official Synonym Symbols	H3; RXN3; ZINS4; insl7
NCBI Protein Information	relaxin-3
UniProt Protein Name	Relaxin-3
UniProt Gene Name	RLN3
UniProt Synonym Gene Names	INSL7; RXN3; ZINS4; Insulin-like peptide 7
UniProt Entry Name	REL3_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://stage.aaabiotech.com/polyclonal/rln3-antibody-flow-cytometry-western-blot-elisa/127302>