

Rabbit anti-Human, Rat RETSAT Polyclonal Antibody | anti-RETSAT antibody

Anti-RETSAT Antibody Picoband

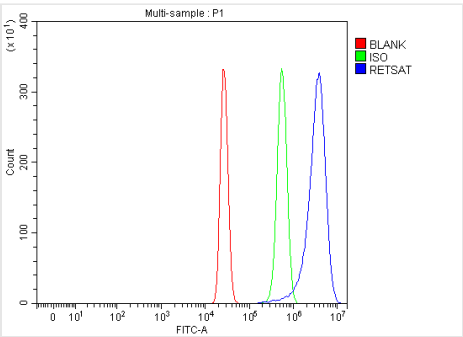
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127708	Rabbit	Human, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

RETSAT; Polyclonal Antibody; Anti-RETSAT Antibody Picoband; interleukin 17B; Interleukin-17B; IL-17B; Cytokine CX1; Cytokine-like protein ZCYTO7; Neuronal interleukin-17-related factor; IL17b; Nirf; Zcyto7; anti-RETSAT antibody

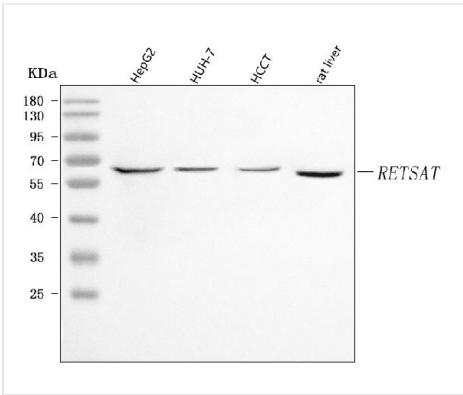
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in adult pancreas, small intestine, stomach, spinal cord and testis. Less pronounced expression in prostate, colon mucosal lining, and ovary.
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-RETSAT antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human RETSAT recombinant protein (Position: E35-K597).
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	Stimulates the release of tumor necrosis factor alpha and IL-1-beta from the monocytic cell line THP-1.
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 HepG2 cells using anti-RETSAT antibody (AAA127708).Overlay histogram showing HepG2 cells stained with AAA127708 (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-RETSAT Antibody (AAA127708, 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 RETSAT using anti-RETSAT antibody (AAA127708).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 HepG2 whole cell lysates,Lane 2: human HUH-7 whole cell lysates,Lane 3: human hepatocellular carcinoma tumor tissue (HCCT) lysates,Lane 4: rat liver 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-RETSAT antigen affinity purified polyclonal antibody (#AAA127708) 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 RETSAT at approximately 67 kDa. The expected band size for RETSAT is at 67 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RETSAT 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-RETSAT antibody	Primary Antibodies; Cytokines; Immunology; Innate Immunity; Interleukins
References	1. Hartz, P. A. Personal Communication. Baltimore, Md. 7/26/2017.2. Moise, A. R., Kuksa, V., Imanishi, Y., Palczewski, K. Identification of all-trans-retinol:all-trans-13,14-dihydroretinol saturase. J. Biol. Chem. 279: 50230-50242, 2004.3. Schupp, M., Lefterova, M. I., Janke, J., Leitner, K., Cristancho, A. G., Mullican, S. E., Qatanani, M., Szwegold, N., Steger, D. J., Curtin, J. C., Kim, R. J., Suh, M.-J., Albert, M. R., Engeli, S., Gudas, L. J., Lazar, M. A. Retinol saturase promotes adipogenesis and is downregulated in obesity. Proc. Nat. Acad. Sci. 106: 1105-1110, 2009. Note: Erratum: Proc. Nat. Acad. Sci. 106: 4571 only, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GI #	15030289
NCBI GeneID	54884
UniProt Accession #	Q6NUM9; Q53R95; Q53SA9; Q6UX05; Q8N2H5; Q96FA4; Q9NXE5; A6NIK3
Molecular Weight	66,820 Da
NCBI Official Full Name	RETSAT protein
NCBI Official Synonym Full Names	retinol saturase (all-trans-retinol 13,14-reductase)
NCBI Official Symbol	RETSAT
NCBI Protein Information	all-trans-retinol 13,14-reductase; all-trans-13,14-dihydroretinol saturase; PPAR-alpha-regulated and starvation-induced gene protein

UniProt Protein Name	All-trans-retinol 13,14-reductase
UniProt Gene Name	RETSAT
UniProt Synonym Gene Names	PPSIG; RetSat
UniProt Entry Name	RETST_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/polyclonal/retsat-antibody-flow-cytometry-western-blot-elisa/127708>