

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

Anti-RXRA Antibody Picoband

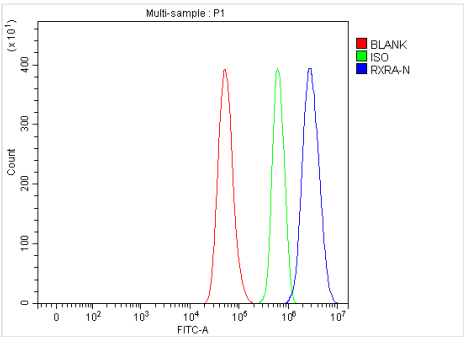
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127050	Rabbit	Human, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

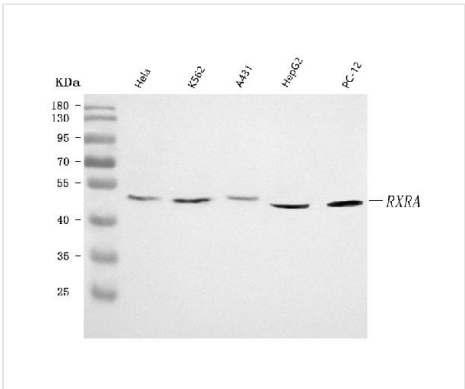
RXRA; Polyclonal Antibody; Anti-RXRA Antibody Picoband; retinoid X receptor alpha; Retinoic acid receptor RXR-alpha; Nuclear receptor subfamily 2 group B member 1; Retinoid X receptor alpha; NR2B1; anti-RXRA antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Highly expressed in liver, also found in lung, kidney and heart.
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-RXRA antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human RXRA recombinant protein (Position: M1-H133).
Subcellular Localization	Nucleus
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	Receptor for retinoic acid. Retinoic acid receptors bind as heterodimers to their target response elements in response to their ligands, all-trans or 9-cis retinoic acid, and regulate gene expression in various biological processes. The RAR/RXR heterodimers bind to the retinoic acid response elements (RARE) composed of tandem 5'-AGGTCA-3' sites known as DR1-DR5. The high affinity ligand for RXRs is 9-cis retinoic acid. RXRA serves as a common heterodimeric partner for a number of nuclear receptors. In the absence of ligand, the RXR-RAR heterodimers associate with a multiprotein complex containing transcription corepressors that induce histone acetylation, chromatin condensation and transcriptional suppression. On ligand binding, the corepressors dissociate from the receptors and associate with the coactivators leading to transcriptional activation. The RXRA/PPARA heterodimer is required for PPARA transcriptional activity on fatty acid oxidation genes such as ACOX1 and the P450 system genes.
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 Hela cells using anti-RXRA antibody (AAA127050).Overlay histogram showing Hela cells stained with AAA127050 (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-RXRA Antibody (AAA127050, 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 RXRA using anti-RXRA antibody (AAA127050).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 Hela whole cell lysates,Lane 2: human K562 whole cell lysates,Lane 3: human A431 whole cell lysates,Lane 4: human HepG2 whole cell lysates,Lane 5: rat PC-12 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-RXRA antigen affinity purified polyclonal antibody (#AAA127050) 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 RXRA at approximately 51 kDa. The expected band size for RXRA is at 51 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RXRA 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-RXRA antibody	Primary Antibodies; Cancer; Caspases; Cell Biology; Cell Death; Intracellular; Invasion/Microenvironment; Metabolism; Metabolism Processes; NFkB Pathway; Nuclear Signaling; Pathways and Processes; Signal Transduction; Signaling Pathway
References	1. "Entrez Gene: RXRA retinoid X receptor, alpha".2. Jones, K. A., Fitzgibbon, J., Woodward, K. J., Goudie, D., Ferguson-Smith, M. A., Povey, S., Wolfe, J., Solomon, E. Localization of the retinoid X receptor alpha gene (RXRA) to chromosome 9q34. Ann. Hum. Genet. 57: 195-201, 1993.

NCBI AND UNIPROT INFORMATION

NCBI GI #	133701
NCBI GeneID	6256
UniProt Accession #	P19793; Q2NL52; Q2V504
Molecular Weight	50,811 Da
NCBI Official Full Name	Retinoic acid receptor RXR-alpha
NCBI Official Synonym Full Names	retinoid X receptor, alpha
NCBI Official Symbol	RXRA
NCBI Official Synonym Symbols	NR2B1
NCBI Protein Information	retinoic acid receptor RXR-alpha; retinoid X nuclear receptor alpha; nuclear receptor subfamily 2 group B member 1
UniProt Protein Name	Retinoic acid receptor RXR-alpha

UniProt Gene Name	RXRA
UniProt Synonym Gene Names	NR2B1
UniProt Entry Name	RXRA_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/rxra-antibody-flow-cytometry-western-blot-elisa/127050>