

Rabbit anti-Human RREB1 Polyclonal Antibody | anti-RREB1 antibody

Anti-RREB1 Antibody Picoband

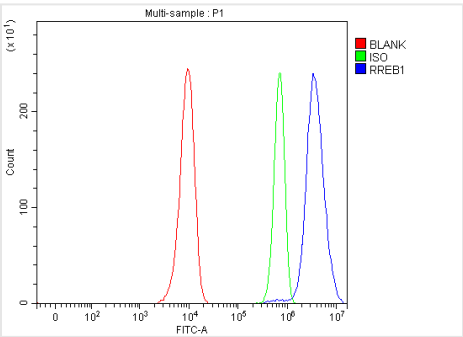
CATALOG # AAA127204	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Flow Cytometry, Functional Assay, Western Blot
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PRODUCT SYNONYMS

RREB1; Polyclonal Antibody; Anti-RREB1 Antibody Picoband; aldolase; fructose-bisphosphate B; Fructose-bisphosphate aldolase B; Liver-type aldolase; ALDOB; ALDB; anti-RREB1 antibody

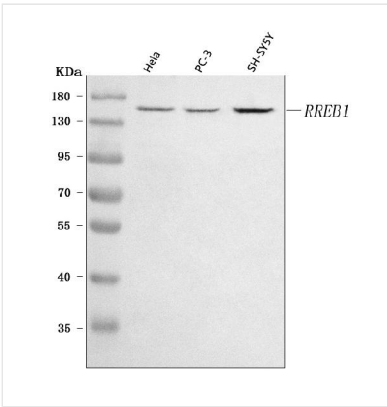
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Pancreas-specific (at protein level). Loss of expression is seen in ductal type pancreas cancers.
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-RREB1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human RREB1 recombinant protein (Position: K732-Q1559).
Subcellular Localization	Nucleus, Cytoplasm
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	Transcription factor implicated in the cell fate determination in various organs. Binds to the E-box consensus sequence 5'-CANNTG-3'. Plays a role in early and late pancreas development and differentiation. Important for determining whether cells allocated to the pancreatic buds continue towards pancreatic organogenesis or revert back to duodenal fates. May be involved in the maintenance of exocrine pancreas-specific gene expression including ELA1 and amylase. Required for the formation of pancreatic acinar and ductal cells. Plays an important role in cerebellar development. ly regulated by FOXN4 and RORC during retinal development, FOXN4-PTF1A pathway plays a central role in ing the differentiation of retinal progenitors towards horizontal and amacrine fates.
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-RREB1 antibody (AAA127204). Overlay histogram showing HeLa cells stained with AAA127204 (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-RREB1 Antibody (AAA127204, 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 RREB1 using anti-RREB1 antibody (AAA127204). 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 PC-3 whole cell lysates, Lane 3: human SH-SY5Y 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-RREB1 antigen affinity purified polyclonal antibody (#AAA127204) 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 RREB1 at approximately 160 kDa. The expected band size for RREB1 is at 160-181 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-RREB1 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-RREB1 antibody	Primary Antibodies; Cancer; Cell Biology; Cytoskeleton/ECM; ECM Enzymes; Extracellular Matrix; Invasion/Microenvironment; Proteolysis/Ubiquitin; Proteolytic Enzymes; Signal Transduction
References	1. Carson, E. B., McMahon, M., Baylin, S. B., Nelkin, B. D. Ret gene silencing is associated with Raf-1-induced medullary thyroid carcinoma cell differentiation. Cancer Res. 55: 2048-2052, 1995. 2. Flajollet, S., Poras, I., Carosella, E. D., Moreau, P. RREB-1 is a transcriptional repressor of HLA-G. J. Immun. 183: 6948-6959, 2009. 3. Kent, O. A., Saha, M., Coyaud, E., Burston, H. E., Law, N., Dadson, K., Chen, S., Laurent, E. M., St-Germain, J., Sun, R. X., Matsumoto, Y., Cowen, J., and 10 others. Haploinsufficiency of RREB1 causes a Noonan-like RASopathy via epigenetic reprogramming of RAS-MAPK pathway genes. Nature Commun. 11: 4673, 2020.

NCBI AND UNIPROT INFORMATION

NCBI GI #	51173735
NCBI GeneID	6239
NCBI Accession #	NP_001003698.1
NCBI GenBank Nucleotide #	NM_001003698.3
UniProt Accession #	Q92766; O75567; O75568; Q5VYB2; Q6BEP5; Q6BEP6; Q6BEP8; Q86SU2; Q9Y474; A2RRF5
Molecular Weight	181,420 Da
NCBI Official Full Name	ras-responsive element-binding protein 1 isoform 2
NCBI Official Synonym Full Names	ras responsive element binding protein 1
NCBI Official Symbol	RREB1

NCBI Official Synonym Symbols	HNT; FINB; LZ321; Zep-1; RREB-1
NCBI Protein Information	ras-responsive element-binding protein 1; hindsight homolog; DNA-binding protein; finger protein in nuclear bodies; raf-responsive zinc finger protein LZ321; zinc finger motif enhancer binding protein 1; zinc finger motif enhancer-binding protein 1; zinc
UniProt Protein Name	Ras-responsive element-binding protein 1
UniProt Gene Name	RREB1
UniProt Synonym Gene Names	FINB; RREB-1; Zep-1
UniProt Entry Name	RREB1_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/rreb1-antibody-flow-cytometry-western-blot-elisa/127204>