

Rabbit RBM22 Polyclonal Antibody | anti-RBM22 antibody

Anti-RBM22 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19942	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

RBM22; Polyclonal Antibody; Anti-RBM22 Antibody Picoband; Protein NDRG3; pre T cell antigen receptor alpha; Pre T-cell antigen receptor alpha; pT-alpha; pTa; pT-alpha-TCR; PTCRA; anti-RBM22 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in immature but not mature T-cells. Also found in CD34+ cells from peripheral blood, CD34+ precursors from umbilical cord blood and adult bone marrow.
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-RBM22 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	WB: 0.25-0.5ug/ml, Human, Mouse, Rat IHC(Paraffin-embedded Section): 2-5ug/ml, Human, Mouse, Rat IF: 5ug/ml, Mouse, Rat FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human RBM22 recombinant protein (Position: D17-D406).
Subcellular Localization	Membrane, Single-pass type I membrane protein
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	The pre-T-cell receptor complex (composed of PTCRA, TCRB and the CD3 complex) regulates early T-cell development.
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 (Flow Cytometry)

Figure 15. Flow Cytometry analysis of Daudi cells using anti-RBM22 antibody (AAA19942). Overlay histogram showing Daudi cells stained with AAA19942 (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-RBM22 Antibody (AAA19942, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127, 5-10ug/1x106 cells) 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.



IF (Immunofluorescence)

Figure 14. IF analysis of RBM22 using anti-RBM22 antibody (AAA19942). RBM22 was detected in a paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 5ug/mL rabbit anti-RBM22 Antibody (AAA19942) overnight at 4 degree C. DyLight®550 Conjugated Goat Anti-Rabbit IgG (BA1135) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-RBM22 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-RBM22 antibody	Primary Antibodies; Hematopoietic Progenitors; Lymphoid; Stem Cells; T Lymphocytic Lineage
References	1. Hartz, P. A. Personal Communication. Baltimore, Md. 11/21/2008.2. Kittler, R., Putz, G., Pelletier, L., Poser, I., Heninger, A.-K., Drechsel, D., Fischer, S., Konstantinova, I., Habermann, B., Grabner, H., Yaspo, M.-L., Himmelbauer, H., Korn, B., Neugebauer, K., Pisabarro, M. T., Buchholz, F. An endoribonuclease-prepared siRNA screen in human cells identifies genes essential for cell division. Nature 432: 1036-1040, 2004.3. Montaville, P., Dai, Y., Cheung, C. Y., Giller, K., Becker, S., Michalak, M., Webb, S. E., Miller, A. L., Krebs, J. Nuclear translocation of the calcium-binding protein ALG-2 induced by the RNA-binding protein RBM22. Biochim. Biophys. Acta 1763: 1335-1343, 2006.

NCBI AND UNIPROT INFORMATION

NCBI GI #	8922328
NCBI GeneID	55696
NCBI Accession #	NP_060517
NCBI GenBank Nucleotide #	NM_018047
UniProt Accession #	Q9NW64; O95607; A6NDM5; B4DLI9
Molecular Weight	41,152 Da
NCBI Official Full Name	pre-mRNA-splicing factor RBM22
NCBI Official Synonym Full Names	RNA binding motif protein 22
NCBI Official Symbol	RBM22
NCBI Official Synonym Symbols	Cwc2; ZC3H16; fSAP47
NCBI Protein Information	pre-mRNA-splicing factor RBM22; RNA-binding motif protein 22; functional spliceosome-associated protein 47; zinc finger CCCH domain-containing protein 16
UniProt Protein Name	Pre-mRNA-splicing factor RBM22
UniProt Gene Name	RBM22
UniProt Synonym Gene Names	ZC3H16
UniProt Entry Name	RBM22_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.