

Rabbit anti-Human RBM14 Polyclonal Antibody | anti-RBM14 antibody

Anti-RBM14 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127262	Rabbit	Human	Western Blot, Immunofluorescence, Immunocytochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

RBM14; Polyclonal Antibody; Anti-RBM14 Antibody Picoband; Vesicular acetylcholine transporter; REC8 meiotic recombination protein; Meiotic recombination protein REC8 homolog; Cohesin Rec8p; REC8; REC8L1; anti-RBM14 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in testis and thymus.Expressed in the B-cell lines WI-L2-NS and Namalwa.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-RBM14 antibody	WB (Western Blot), IF (Immunofluorescence), ICC (Immunocytochemistry), FCM/FACS (Flow Cytometry), ELISA
Immunogen	E coli-derived human RBM14 recombinant protein (Position: M1-M669).
Subcellular Localization	Nucleus. Chromosome. Centromere.
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	Required during meiosis for separation of sister chromatids and homologous chromosomes. Proteolytic cleavage of REC8 on chromosome arms by separin during anaphase I allows for homologous chromosome separation in meiosis I and cleavage of REC8 on centromeres during anaphase II allows for sister chromatid separation in meiosis II.
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 3. Flow Cytometry analysis of Hela cells using anti-RBM14 antibody (AAA127262).Overlay histogram showing Hela cells stained with AAA127262 (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-RBM14 Antibody (AAA127262, 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 RBM14 using anti-RBM14 antibody (AAA127262).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 293T whole cell lysates,Lane 3: human Daudi 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-RBM14 antigen affinity purified polyclonal antibody (#AAA127262) at 0.25ug/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 RBM14 at approximately 75 kDa. The expected band size for RBM14 is at 69 kDa.



IF (Immunofluorescence)
Figure 2. IF analysis of RBM14 using anti-RBM14 antibody (AAA127262) and anti-Tubulin Alpha antibody (M03989-3).RBM14 was detected in immunocytochemical section of Hela cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-RBM14 Antibody (AAA127262) and mouse anti-Tubulin Alpha antibody (M03989-3) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and DyLight488 Conjugated Goat Anti-Mouse IgG (BA1126) were used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

ADDITIONAL INFORMATION

Related Product Information for anti-RBM14 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-RBM14 antibody	Primary Antibodies; Vasculature
References	1. Fox, A. H., Lam, Y. W., Leung, A. K. L., Lyon, C. E., Andersen, J., Mann, M., Lamond, A. I. Paraspeckles: a novel nuclear domain. Curr. Biol. 12: 13-25, 2002.2. Iwasaki, T., Chin, W. W., Ko, L. Identification and characterization of RRM-containing coactivator activator (CoAA) as TRBP-interacting protein, and its splice variant as a coactivator modulator (CoAM). J. Biol. Chem. 276: 33375-33383, 2001. 3. Perani, M., Antonson, P., Hamoudi, R., Ingram, C. J. E., Cooper, C. S., Garrett, M. D., Goodwin, G. H. The proto-oncoprotein SYT interacts with SYT-interacting protein/co-activator activator (SIP/CoAA), a human nuclear receptor co-activator with similarity to EWS and TLS/FUS family of proteins. J. Biol. Chem. 280: 42863-42876, 2005.

NCBI AND UNIPROT INFORMATION

NCBI GI #	73913750
NCBI GeneID	10432
UniProt Accession #	Q96PK6; O75932; Q2PYN1; Q53GV1; Q68DQ9; Q96PK5; B0LM41; B3KMN4; D6RGD8
Molecular Weight	669
NCBI Official Full Name	RNA-binding protein 14
NCBI Official Synonym Full Names	RNA binding motif protein 14

NCBI Official Symbol	RBM14
NCBI Official Synonym Symbols	SIP; COAA; PSP2; SYTIP1; TMEM137
NCBI Protein Information	RNA-binding protein 14; paraspeckle protein 2; SYT-interacting protein; transmembrane protein 137; synaptotagmin-interacting protein; RRM-containing coactivator activator/modulator
UniProt Protein Name	RNA-binding protein 14
UniProt Gene Name	RBM14
UniProt Synonym Gene Names	SIP; PSP2; SYT-interacting protein
UniProt Entry Name	RBM14_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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