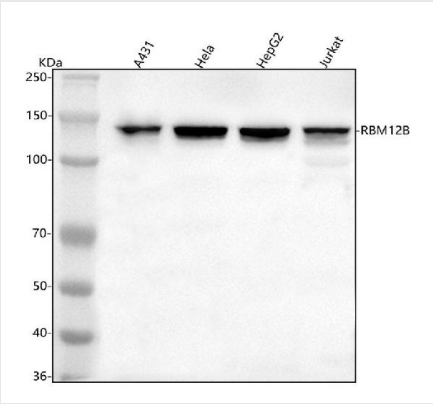
RBM12B Antibody – Rabbit Polyclonal

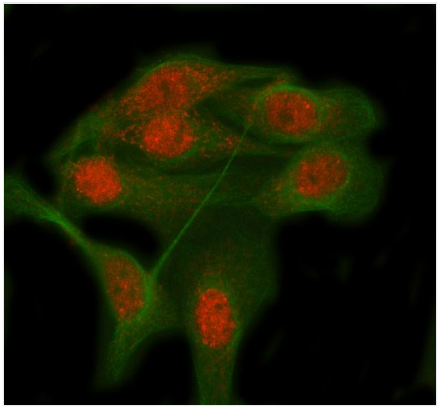
PRODUCT OVERVIEW

Product Name	RBM12B, Polyclonal Antibody
Full Product Name	Anti-RBM12B Antibody Picoband
Product Gene Name	anti-RBM12B antibody
Product Synonym Names	Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody, KS6B1_HUMAN antibody, p70 alpha antibody, P70 beta 1 antibody, p70 ribosomal S6 kinase alpha antibody, p70 ribosomal S6 kinase beta 1 antibody, p70 S6 kinase alpha antibody, P70 S6 Kinase antibody, p70 S6 kinase alpha 1 antibody, p70 S6 kinase alpha 2 antibody, p70 S6K antibody, p70 S6K-alpha antibody, p70 S6KA antibody, p70(S6K) alpha antibody, p70(S6K)-alpha antibody, p70-alpha antibody, p70-S6K 1 antibody, p70-S6K antibody, P70S6K antibody, P70S6K1 antibody, p70S6Kb antibody, PS6K antibody, Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody, Ribosomal protein S6 kinase beta 1 antibody, Ribosomal protein S6 kinase beta-1 antibody, Ribosomal protein S6 kinase I antibody, RPS6KB1 antibody, S6K antibody, S6K-beta-1 antibody, S6K1 antibody, Serine/threonine kinase 14 alpha antibody, Serine/threonine-protein kinase 14A antibody, STK14A antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Specificity	Expressed in all tissues.
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.
Molecular Weight	118,103 Da
3D Structure	ModBase 3D Structure for Q8IXT5
Immunogen	E coli-derived human RBM12B recombinant protein (Position: L186-K997). Human RBM12B shares 67.5% amino acid (aa) sequence identity with mouse RBM12B.
Subcellular Localization	Cytoplasm, 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	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
Product Categories/Family for anti-RBM12B antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-RBM12B antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FC/FACS), ELISA (EIA)

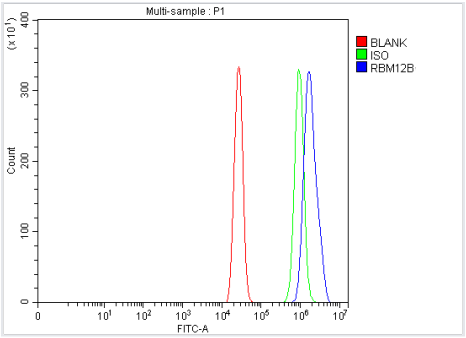
Application Notes for anti-RBM12B antibody	WB: 0.25-0.5ug/ml, Human ICC/IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10^6 cells, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-RBM12B antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product References and Citations for anti-RBM12B antibody	1. Gomez-Ferreria, M. A., Bashkurov, M., Mullin, M., Gingras, A. C., & Pelletier, L. (2012). CEP192 interacts physically and functionally with the K63-deubiquitinase CYLD to promote mitotic spindle assembly. Cell Cycle, 11(19), 3555-3558.2. Franke, F. C., Müller, J., Abal, M., Medina, E. D., Nitsche, U., Weidmann, H., ... & Janssen, K. P. (2019). The tumor suppressor SASH1 interacts with the signal adaptor CRKL to inhibit epithelial-mesenchymal transition and metastasis in colorectal cancer. Cellular and Molecular Gastroenterology and Hepatology, 7(1), 33-53.3. van den Berk, P., Lancini, C., Serresi, M., Sanchez-Bailon, M. P., Hulsman, D., Pritchard, C., ... & Citterio, E. (2020). USP15 deubiquitinase safeguards hematopoiesis and genome integrity in hematopoietic stem cells and leukemia cells. Cell Reports, 33(13).
Other Notes	Small volumes of anti-RBM12B antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RBM12B purchase	MBS1759402 is an antibody targeting RBM12B. Also known as Anti-RBM12B Antibody Picoband. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-RBM12B antibody
Figure 1. Western blot analysis of RBM12B using anti-RBM12B antibody (MBS1759402).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 A431 whole cell lysates,Lane 2: human Hela whole cell lysates,Lane 3: human HepG2 whole cell lysates,Lane 4: human Jurkat 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-RBM12B antigen affinity purified polyclonal antibody (#MBS1759402) 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 (#MBS176460) with Tanon 5200 system. A specific band was detected for RBM12B at approximately 130 kDa. The expected band size for RBM12B is at 118 kDa.

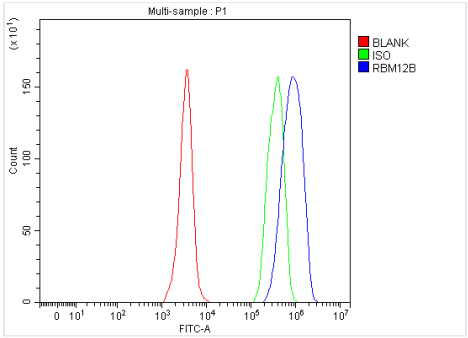


Immunofluorescence (IF) of anti-RBM12B antibody
Figure 2. IF analysis of RBM12B using anti-RBM12B antibody (MBS1759402) and anti-Beta Tubulin antibody (M01857-3).RBM12B was detected in immunocytochemical section of HELA cell. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (#MBS176582) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-RBM12B Antibody (MBS1759402) and mouse anti-Beta Tubulin antibody (M01857-3) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) and FITC Conjugated Goat Anti-Mouse IgG (BA1101) 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.



Flow Cytometry (FC/FACS) of anti-RBM12B antibody

Figure 3. Flow Cytometry analysis of A431 cells using anti-RBM12B antibody (MBS1759402).Overlay histogram showing A431 cells stained with MBS1759402 (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-RBM12B Antibody (MBS1759402, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 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 (Red line) was also used as a control.



Flow Cytometry (FC/FACS) of anti-RBM12B antibody

Figure 4. Flow Cytometry analysis of JK cells using anti-RBM12B antibody (MBS1759402).Overlay histogram showing JK cells stained with MBS1759402 (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-RBM12B Antibody (MBS1759402, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 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 (Red line) was also used as a control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RBM12B. It may not necessarily be applicable to this product.

NCBI GI #	118722349
NCBI GeneID	389677
NCBI Accession #	NP_976324.2
UniProt Primary Accession #	Q8IXT5
UniProt Secondary Accession #	A8MYB5
UniProt Related Accession #	Q8IXT5
GenBank Nucleotide #	NM_203390.2
NCBI Official Full Name	RNA-binding protein 12B
NCBI Official Synonym Full Names	RNA binding motif protein 12B
NCBI Official Symbol	RBM12B
NCBI Official Synonym Symbols	MGC:33837
UniProt Protein Name	RNA-binding protein 12B
UniProt Synonym Protein Names	RNA-binding motif protein 12B
Protein Family	RNA-binding protein
UniProt Gene Name	RBM12B
UniProt Entry Name	RB12B_HUMAN
NCBI Protein Information	RNA-binding protein 12B; RNA-binding motif protein 12B
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