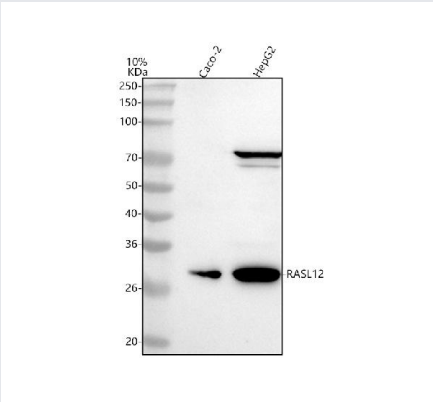
RASL12 Antibody – Rabbit Polyclonal

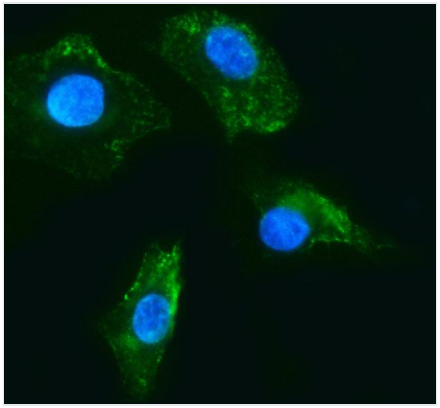
PRODUCT OVERVIEW

Product Name	RASL12, Polyclonal Antibody
Full Product Name	Anti-RASL12 Antibody Picoband
Product Gene Name	anti-RASL12 antibody
Clonality	Polyclonal
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.
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	27,424 Da
3D Structure	ModBase 3D Structure for Q9NYN1
Immunogen	E coli-derived human RASL12 recombinant protein (Position: K7-K261). Human RASL12 shares 93.3% amino acid (aa) sequence identity with mouse RASL12.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Product Categories/Family for anti-RASL12 antibody	Primary Antibodies
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-RASL12 antibody	Western Blot (WB), Immunocytochemistry (ICC), Immunofluorescence (IF), Flow Cytometry (FC/FACS), ELISA (EIA)
Application Notes for anti-RASL12 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-RASL12 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-RASL12 antibody	1. Wistow, G., Bernstein, S. L., Ray, S., Wyatt, M. K., Behal, A., Touchman, J. W., ... & Peterson, K. (2002). Expressed sequence tag analysis of adult human iris for the NEIBank Project: steroid-response factors and similarities with retinal pigment epithelium. Mol Vis, 8(21), 185-195.2. Barrios-Rodiles, M., Brown, K. R., Ozdamar, B., Bose, R., Liu, Z., Donovan, R. S., ... & Wrana, J. L. (2005). High-throughput mapping of a dynamic signaling network in mammalian cells. Science, 307(5715), 1621-1625.3. Lipp, J. J., Marvin, M. C., Shokat, K. M., & Guthrie, C. (2015). SR protein kinases promote splicing of nonconsensus introns. Nature structural & molecular biology, 22(8), 611.
Other Notes	Small volumes of anti-RASL12 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 RASL12 purchase	MBS1759431 is an antibody targeting RASL12. Also known as Anti-RASL12 Antibody Picoband. Reactive in Human. Host: Rabbit.



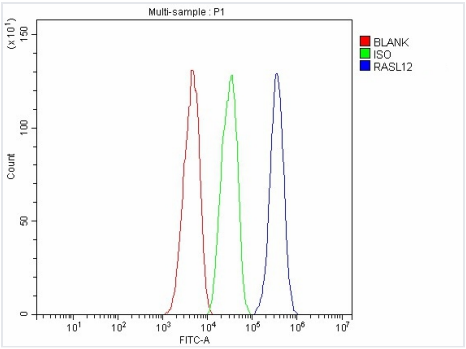
Western Blot (WB) of anti-RASL12 antibody

Figure 1. Western blot analysis of RASL12 using anti-RASL12 antibody (MBS1759431).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 Caco-2 whole cell lysates,Lane 2: human HepG2 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-RASL12 antigen affinity purified polyclonal antibody (#MBS1759431) 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 RASL12 at approximately 30 kDa. The expected band size for RASL12 is at 30,29,27 kDa.



Immunofluorescence (IF) of anti-RASL12 antibody

Figure 2. IF analysis of RASL12 using anti-RASL12 antibody (MBS1759431).RASL12 was detected in an immunocytochemical section of A549 cells. 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-RASL12 Antibody (MBS1759431) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG (MBS177405) 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.



Flow Cytometry (FC/FACS) of anti-RASL12 antibody

Figure 3. Flow Cytometry analysis of HepG2 cells using anti-RASL12 antibody (MBS1759431).Overlay histogram showing HepG2 cells stained with MBS1759431 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-RASL12 Antibody (MBS1759431, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RASL12. It may not necessarily be applicable to this product.

NCBI GI #	808154246
NCBI GeneID	51285
NCBI Accession #	NP_001294859.1
UniProt Primary Accession #	Q9NYN1
UniProt Secondary Accession #	B2RC29; B4DJW2; B4DU82
UniProt Related Accession #	Q9NYN1

GenBank Nucleotide #	NM_001307930.1
NCBI Official Full Name	ras-like protein family member 12 isoform 2
NCBI Official Synonym Full Names	RAS like family 12
NCBI Official Symbol	RASL12
NCBI Official Synonym Symbols	RIS
UniProt Protein Name	Ras-like protein family member 12
UniProt Synonym Protein Names	Ras-like protein Ris
Protein Family	Ras-like protein family
UniProt Gene Name	RASL12
UniProt Synonym Gene Names	RIS
UniProt Entry Name	RASLC_HUMAN
NCBI Protein Information	ras-like protein family member 12
UniProt Comments for RASL12	RASL12: Belongs to the small GTPase superfamily. Ras family. Protein type: G protein; G protein, monomeric; G protein, monomeric, Ras Chromosomal Location of Human Ortholog: 15q11.2-q22.33
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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