

Mouse anti-Human RPL13A Monoclonal Antibody | anti-RPL13A antibody

Anti-RPL13A Antibody (monoclonal, 4C9)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125929	Mouse	Human	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

RPL13A; Monoclonal Antibody; Anti-RPL13A Antibody (monoclonal; 4C9); 60S ribosomal protein L13a; 23 kDa highly basic protein; Large ribosomal subunit protein U13; ribosomal protein L13a; anti-RPL13A antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG2a
Clone Number	4C9
Specificity	Mouse IgG monoclonal antibody for RPL13A detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na ₂ HPO ₄ .
Applicable Applications for anti-RPL13A antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived human RPL13A recombinant protein (Position:A2-V203).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of A431 cells using anti-RPL13A antibody (AAA125929). Overlay histogram showing A431 cells stained with AAA125929 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-RPL13A Antibody (AAA125929, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-mouse IgG (BA1126, 5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of RPL13A using anti-RPL13A antibody (AAA125929). RPL13A was detected in immunocytochemical section of CACO-2 cells. 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 5µg/mL mouse anti-RPL13A Antibody (AAA125929) overnight at 4 degree C. DyLight[®]488 Conjugated Goat Anti-Mouse IgG (BA1126) was used as secondary antibody at 1:100 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.



WB (Western Blot)

Figure 1. Western blot analysis of RPL13A using anti-RPL13A antibody (AAA125929). 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 30ug of sample under reducing conditions. Lane 1: human Hek293 whole cell lysates Lane 2: human Hela whole cell lysates Lane 3: human K562 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-RPL13A antigen affinity purified monoclonal antibody (Catalog # AAA125929) at 0.5 µg/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-mouse IgG-HRP secondary antibody at a dilution of 1:10000 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 RPL13A at approximately 24KD. The expected band size for RPL13A is at 24KD.

ADDITIONAL INFORMATION

Related Product Information for anti-RPL13A antibody	60S ribosomal protein L13a is a protein that in humans is encoded by the RPL13A gene. It is mapped to 19q13. 33. Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a member of the L13P family of ribosomal proteins that is a component of the 60S subunit. The encoded protein also plays a role in the repression of inflammatory genes as a component of the IFN-gamma-activated inhibitor of translation (GAIT) complex. This gene is co-transcribed with the small nucleolar RNA genes U32, U33, U34, and U35, which are located in the second, fourth, fifth, and sixth introns, respectively. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed throughout the genome. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene.
References	1. Wool IG, Chan YL, Glück A (1996). "Structure and evolution of mammalian ribosomal proteins". Biochem. Cell Biol. 73 (11-12): 933-947. 2. Price SR, Nightingale MS, Bobak DA, et al. (1993). "Conservation of a 23-kDa human transplantation antigen in mammalian species". Genomics. 14 (4): 959-964. 3. Nicoloso M, Qu LH, Michot B, Bachellerie JP (1996). "Intron-encoded, antisense small nucleolar RNAs: the characterization of nine novel species points to their direct role as guides for the 2'-O-ribose methylation of rRNAs". J. Mol. Biol. 260 (2): 178-195.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6912634
NCBI GeneID	23521
NCBI Accession #	NP_036555
NCBI GenBank Nucleotide #	NM_012423
UniProt Accession #	P40429; A8K505
Molecular Weight	23,577 Da
NCBI Official Full Name	60S ribosomal protein L13a isoform 1
NCBI Official Synonym Full Names	ribosomal protein L13a
NCBI Official Symbol	RPL13A
NCBI Official Synonym Symbols	L13A; TSTA1
NCBI Protein Information	60S ribosomal protein L13a; 23 kDa highly basic protein; tissue specific transplantation antigen 1
UniProt Protein Name	60S ribosomal protein L13a

UniProt Gene Name	RPL13A
UniProt Entry Name	RL13A_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/monoclonal/rpl13a-antibody-clone-4c9-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/125929>