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Mouse Rpl13a Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19309a

Product Information

Application	WB, E
Primary Accession	P19253
Other Accession	P35427, Q95307, Q4R8Z2, P40429, Q3SZ90, NP_033464.2
Reactivity	Mouse
Predicted	Bovine, Human, Monkey, Pig, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB40184
Calculated MW	23464
Antigen Region	28-54

Additional Information

Gene ID	22121
Other Names	60S ribosomal protein L13a, Transplantation antigen P198, Tum-P198 antigen, Rpl13a, P198, Tstap198-7
Target/Specificity	This Mouse Rpl13a antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 28-54 amino acids from the N-terminal region of mouse Rpl13a.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Mouse Rpl13a Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Rpl13a
Synonyms	P198, Tstap198-7

Function	Associated with ribosomes but is not required for canonical ribosome function and has extra-ribosomal functions (PubMed:36517592). Component of the GAIT (gamma interferon-activated inhibitor of translation) complex which mediates interferon-gamma-induced transcript-selective translation inhibition in inflammation processes (PubMed:23071094). Upon interferon-gamma activation and subsequent phosphorylation dissociates from the ribosome and assembles into the GAIT complex which binds to stem loop-containing GAIT elements in the 3'-UTR of diverse inflammatory mRNAs (such as ceruplasmin) and suppresses their translation (By similarity). In the GAIT complex interacts with m7G cap-bound eIF4G at or near the eIF3-binding site and blocks the recruitment of the 43S ribosomal complex (By similarity). Involved in methylation of rRNA (By similarity).
Cellular Location	Cytoplasm.

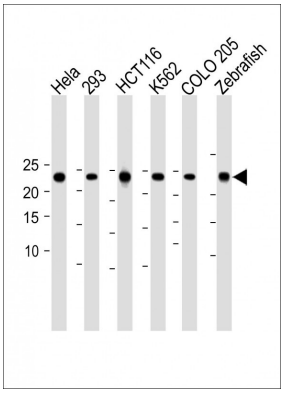
Background

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 ribosomal protein that is a component of the 60S subunit. The protein belongs to the L13P family of ribosomal proteins. It is located in the cytoplasm. Transcript variants utilizing alternative polyA signals have been observed. This gene is co-transcribed with the small nucleolar RNA genes U32, U33, U34, and U35, which are located in its second, fourth, fifth, and sixth introns, respectively. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome.

References

Maggi, L.B. Jr., et al. Mol. Cell. Biol. 28(23):7050-7065(2008)
Stryke, D., et al. Nucleic Acids Res. 31(1):278-281(2003)
Mahy, N.L., et al. J. Cell Biol. 159(5):753-763(2002)
Neidhardt, L., et al. Mech. Dev. 98 (1-2), 77-94 (2000) :
Gu, Z., et al. Mol. Cell. Biol. 20(1):233-241(2000)

Images



All lanes: Anti-Mouse Rpl13a Antibody (N-term) at 1:2000 dilution Lane 1: Hela whole cell lysate Lane 2: 293 whole cell lysate Lane 3: HCT116 whole cell lysate Lane 4: K562 whole cell lysate Lane 5: COLO 205 whole cell lysate Lane 6: Zebrafish lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 23 KDa Blocking/Dilution buffer: 5% NFDM/TBST.