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RPS7 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant RPS7.
Catalog # AT3725a

Product Information

Application	WB, IHC, IF, E
Primary Accession	P62081
Other Accession	NM_001011
Reactivity	Human, Mouse, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3G4
Calculated MW	22127

Additional Information

Gene ID	6201
Other Names	40S ribosomal protein S7, RPS7
Target/Specificity	RPS7 (NP_001002, 95 a.a. ~ 194 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	RPS7 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

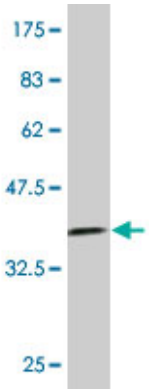
Ribosomes, the organelles that catalyze protein synthesis, consist of a small 40S subunit and a large 60S subunit. Together these subunits are composed of 4 RNA species and approximately 80 structurally distinct proteins. This gene encodes a ribosomal protein that is a component of the 40S subunit. The protein belongs to the S7E family of ribosomal proteins. It is located in the cytoplasm. As is typical for genes encoding ribosomal proteins, there are multiple processed pseudogenes of this gene dispersed through the genome.

References

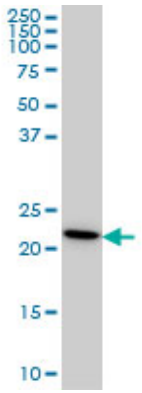
Ribosomal protein L5 and L11 mutations are associated with cleft palate and abnormal thumbs in

Diamond-Blackfan anemia patients. Gazda HT, et al. Am J Hum Genet, 2008 Dec. PMID 19061985.Nucleophosmin serves as a rate-limiting nuclear export chaperone for the Mammalian ribosome. Maggi LB Jr, et al. Mol Cell Biol, 2008 Dec. PMID 18809582.The role of human ribosomal proteins in the maturation of rRNA and ribosome production. Robledo S, et al. RNA, 2008 Sep. PMID 18697920.Ribosomal protein S7 as a novel modulator of p53-MDM2 interaction: binding to MDM2, stabilization of p53 protein, and activation of p53 function. Chen D, et al. Oncogene, 2007 Aug 2. PMID 17310983.Identification of novel ARF binding proteins by two-hybrid screening. Tompkins V, et al. Cell Cycle, 2006 Mar. PMID 16582619.

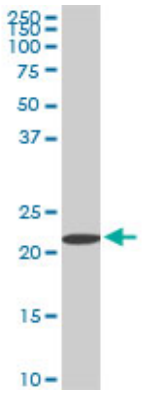
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .

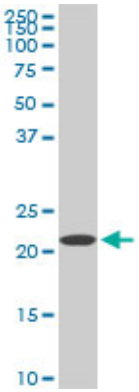


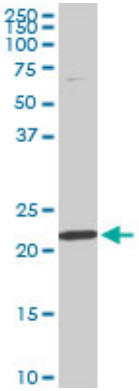
RPS7 monoclonal antibody (M03), clone 3G4 Western Blot analysis of RPS7 expression in HeLa ((Cat # AT3725a)



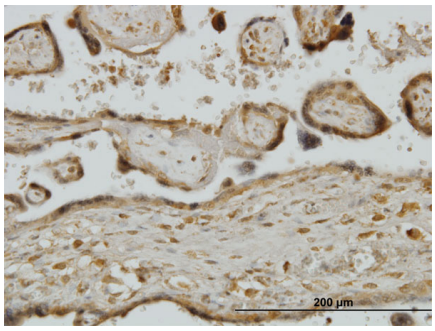
RPS7 monoclonal antibody (M03), clone 3G4. Western Blot analysis of RPS7 expression in PC-12 ((Cat # AT3725a)

RPS7 monoclonal antibody (M03), clone 3G4. Western Blot analysis of RPS7 expression in Raw 264.7 ((Cat # AT3725a)

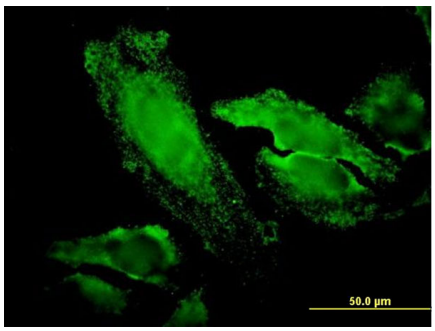




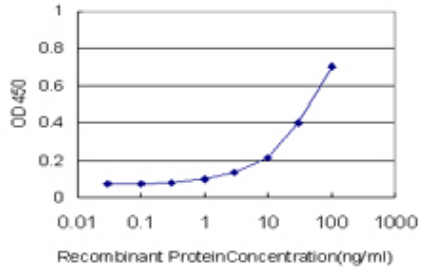
RPS7 monoclonal antibody (M03), clone 3G4. Western Blot analysis of RPS7 expression in NIH/3T3 ((Cat # AT3725a)



Immunoperoxidase of monoclonal antibody to RPS7 on formalin-fixed paraffin-embedded human placenta. [antibody concentration 3 ug/ml]



Immunofluorescence of monoclonal antibody to RPS7 on HeLa cell. [antibody concentration 20 ug/ml]



Detection limit for recombinant GST tagged RPS7 is approximately 1ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.