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Product datasheet for UM870053

MRPS7 Mouse Monoclonal Antibody [Clone ID: UMAB156]

Product data:

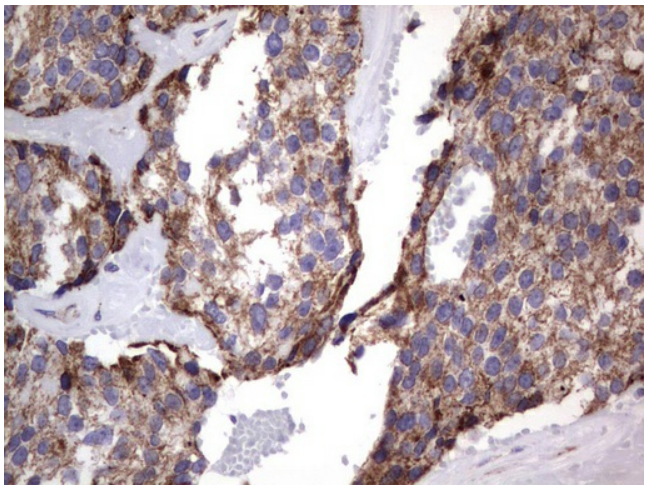
Product Type:	Primary Antibodies
Clone Name:	UMAB156
Applications:	IF, IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:200
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 38-242 of human MRPS7 (NP_057055) produced in E.coli.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.5~1.0 mg/ml (Lot Dependent)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	mitochondrial ribosomal protein S7
Database Link:	NP_057055 Entrez Gene 51081 Human Q9Y2R9

View online »

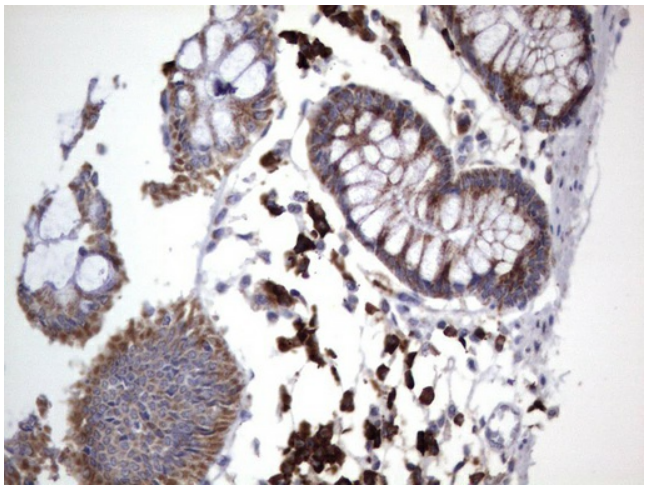
Background: Mammalian mitochondrial ribosomal proteins are encoded by nuclear genes and help in protein synthesis within the mitochondrion. Mitochondrial ribosomes (mitoribosomes) consist of a small 28S subunit and a large 39S subunit. They have an estimated 75% protein to rRNA composition compared to prokaryotic ribosomes, where this ratio is reversed. Another difference between mammalian mitoribosomes and prokaryotic ribosomes is that the latter contain a 5S rRNA. Among different species, the proteins comprising the mitoribosome differ greatly in sequence, and sometimes in biochemical properties, which prevents easy recognition by sequence homology. This gene encodes a 28S subunit protein. In the prokaryotic ribosome, the comparable protein is thought to play an essential role in organizing the 3' domain of the 16 S rRNA in the vicinity of the P- and A-sites. Pseudogenes corresponding to this gene are found on chromosomes 8p and 12p. [provided by RefSeq, Jul

Synonyms: bMRP27a; MRP-S; MRP-S7; RP-S7; RPMS7; S7mt

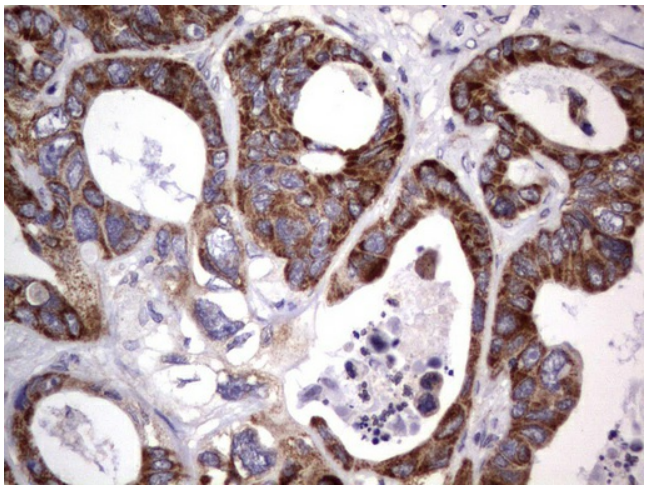
Product images:



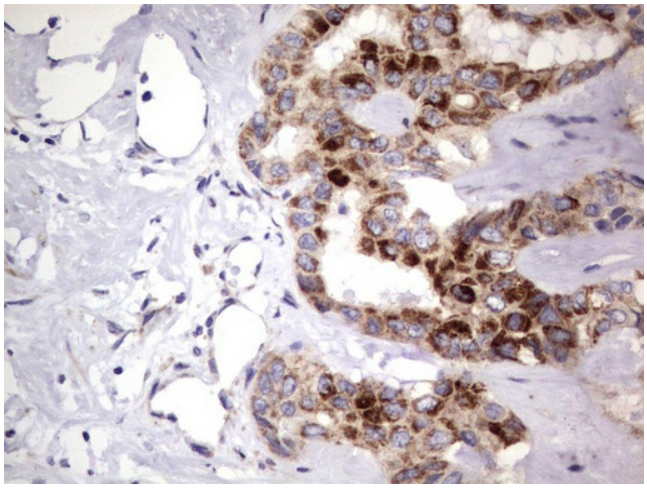
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-MRPS7 mouse monoclonal antibody. ([UM800053]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH9.0, 120°C for 3min)



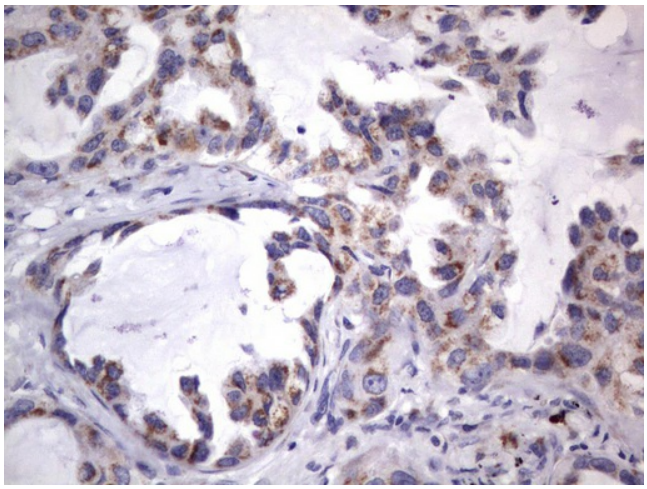
Immunohistochemical staining of paraffin-embedded Human colon tissue using anti-MRPS7 mouse monoclonal antibody. ([UM800053]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH9.0, 120°C for 3min)



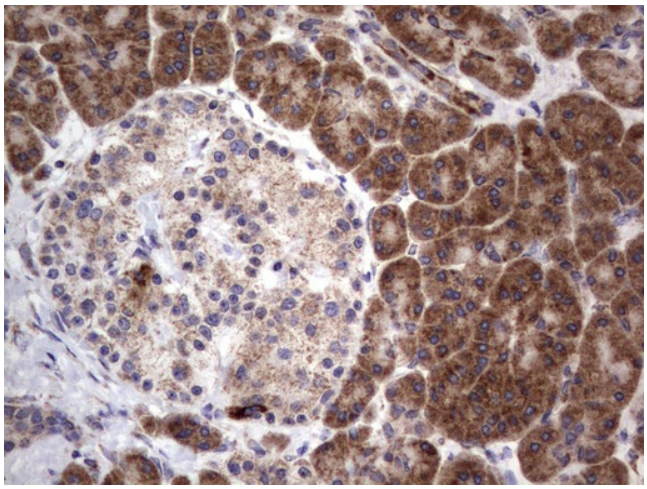
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-MRPS7 mouse monoclonal antibody. ([UM800053]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH9.0, 120°C for 3min)



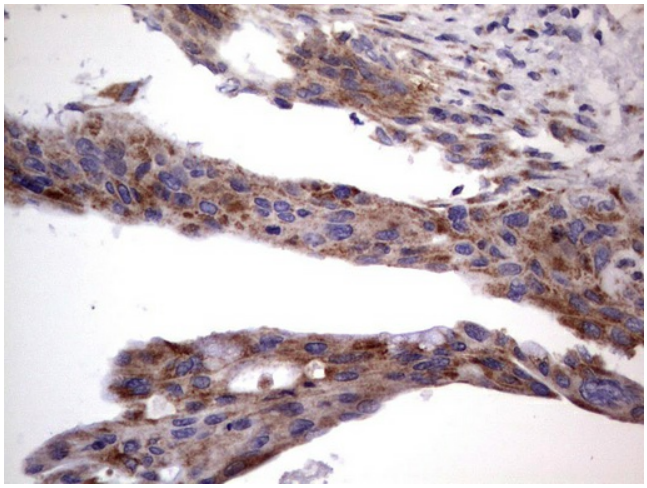
Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-MRPS7 mouse monoclonal antibody. ([UM800053]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH9.0, 120°C for 3min)



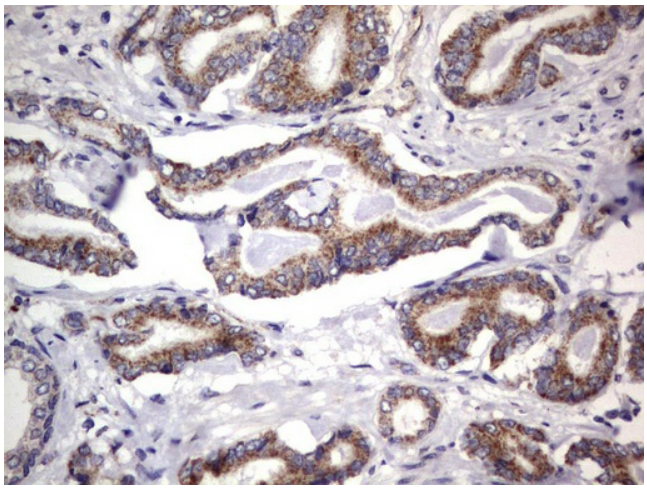
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-MRPS7 mouse monoclonal antibody. ([UM800053]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH9.0, 120°C for 3min)



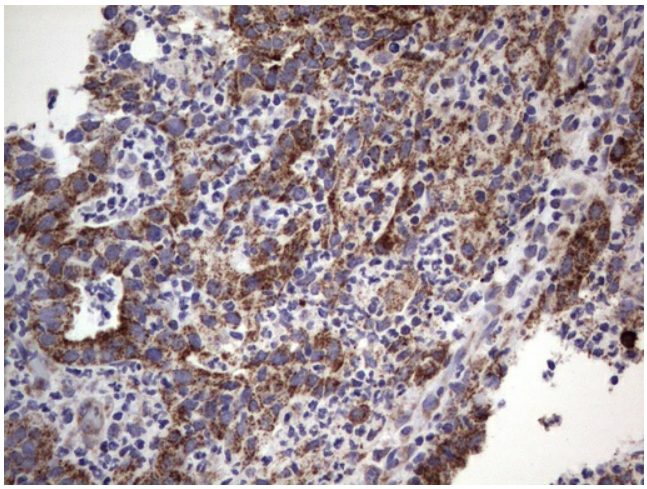
Immunohistochemical staining of paraffin-embedded Human pancreas tissue using anti-MRPS7 mouse monoclonal antibody. ([UM800053]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH9.0, 120°C for 3min)



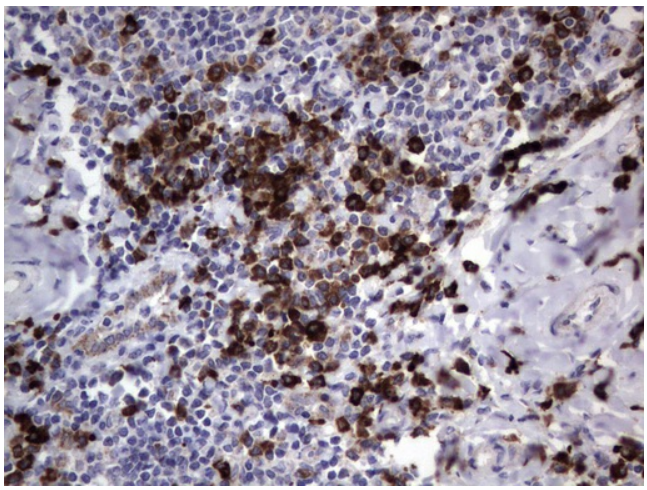
Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-MRPS7 mouse monoclonal antibody. ([UM800053]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH9.0, 120°C for 3min)



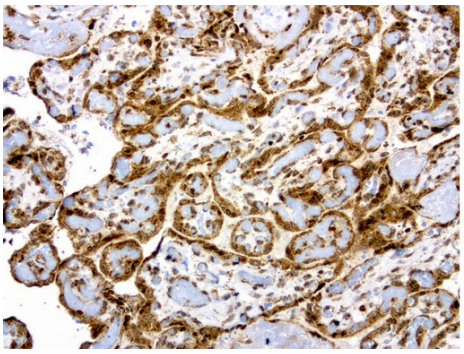
Immunohistochemical staining of paraffin-embedded Human prostate tissue using anti-MRPS7 mouse monoclonal antibody. ([UM800053]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH9.0, 120°C for 3min)

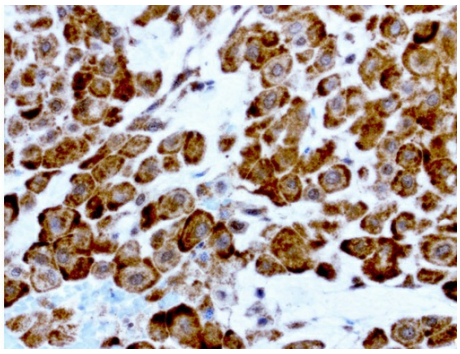


Immunohistochemical staining of paraffin-embedded Human lymph node tissue using anti-MRPS7 mouse monoclonal antibody. ([UM800053]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH9.0, 120°C for 3min)

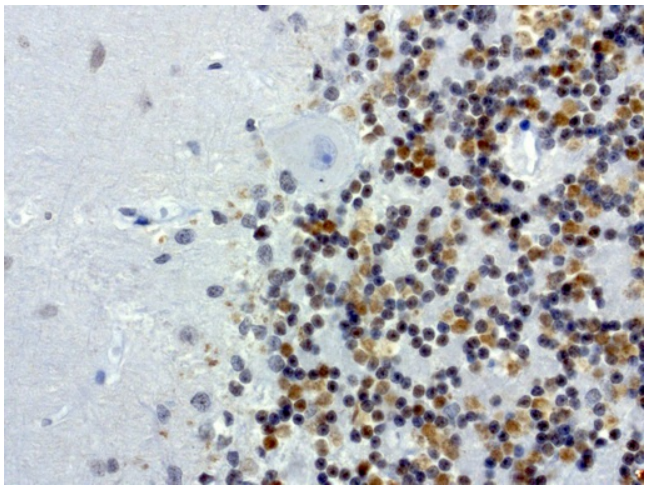


Immunohistochemical staining of paraffin-embedded Human tonsil using anti-MRPS7 mouse monoclonal antibody. ([UM800053]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH9.0, 120°C for 3min)

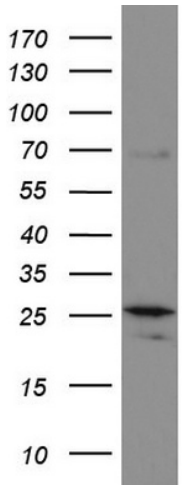




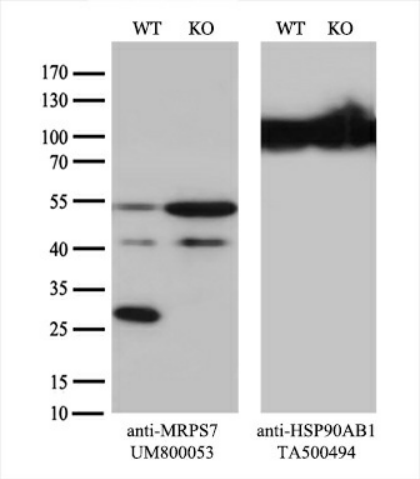
Immunohistochemical staining of paraffin-embedded human composit of placenta using anti-MRPS7 clone UMAB156 mouse monoclonal antibody at 1:200 dilution 1mg/mL and detection with Polink2 Broad HRP DAB. [UM800053] requires heat-induced epitope retrieval with citrate pH6.0 in a presure cooker for 3 minutes at 110C. The image shows membranous and cytoplasmic staining in trophoblast cells.



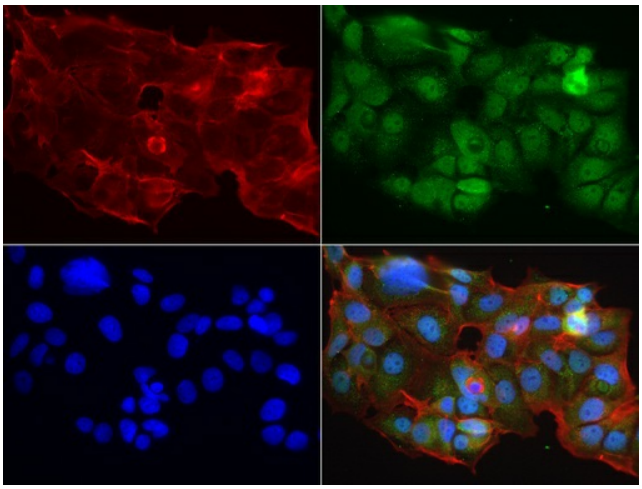
Immunohistochemical staining of paraffin-embedded human normal brain using anti-MRPS7 clone UMAB156 mouse monoclonal antibody at 1:200 dilution 1mg/mL and detection with Polink2 Broad HRP DAB. [UM800053] requires heat-induced epitope retrieval with citrate pH6.0 in a presure cooker for 3 minutes at 110C.



Western blot analysis of HCT116 cell lysate (35ug) by using anti-MRPS7 monoclonal antibody.



Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and MRPS7-Knockout HeLa cells (KO, Cat# [LC831777]) were separated by SDS-PAGE and immunoblotted with anti-MRPS7 monoclonal antibody [UM800053] (1:250). Then the blotted membrane was stripped and reprobed with anti-HSP90 antibody as a loading control.



Immunofluorescent staining of MCF-7 cells using anti-MRPS7 mouse monoclonal antibody ([UM800053], green, 1:50). Actin filaments were labeled with Alexa Fluor® 594 Phalloidin (red), and nuclear with DAPI (blue).