

Rabbit anti-Human MRPS31 Monoclonal Antibody | anti-MRPS31 antibody

MRPS31 Rabbit mAb

CATALOG # AAA282867	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Western Blot
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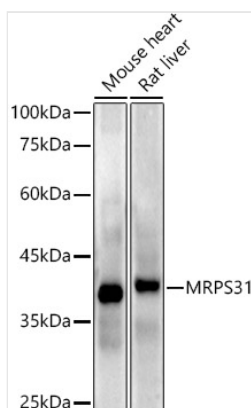
PRODUCT SYNONYMS

MRPS31; Monoclonal Antibody; MRPS31 Rabbit mAb; S31mt; IMOGN38; MRP-S31; anti-MRPS31 antibody

PRODUCT SPECIFICATIONS

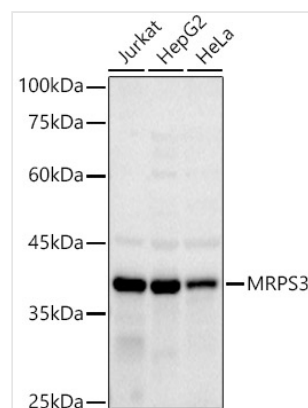
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.
Sequence	NGFEELIQWT KEGKLWEFPI NNEAGFDDDG SEFHEHIFLE KHLESFPKQG PIRHFMELVT CGLSKNPYLS VKQKVEHIEW FRNYFNEKKD ILKESNIQFN
Applicable Applications for anti-MRPS31 antibody	ELISA, WB (Western Blot)
Cross Reactivity	Human, Mouse, Rat
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 296-395 of human MRPS31 (Q92665).
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of various lysates using MRPS31 Rabbit mAb (AAA282867) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 180s.



WB (Western Blot)

Western blot analysis of various lysates using MRPS31 Rabbit mAb (AAA282867) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 180s.

ADDITIONAL INFORMATION

Related Product Information for anti-MRPS31 antibody	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. The 28S subunit of the mammalian mitoribosome may play a crucial and characteristic role in translation initiation. This gene encodes a 28S subunit protein that has also been associated with type 1 diabetes; however, its relationship to the etiology of this disease remains to be clarified. Pseudogenes corresponding to this gene have been found on chromosomes 3 and 13.
Product Categories/Family for anti-MRPS31 antibody	Epigenetics Nuclear Signaling; RNA Binding; Endocrine Metabolism; Mitochondrial metabolism; Mitochondrial markers; Immunology Inflammation; Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	186928854
NCBI GeneID	10240
NCBI Accession #	NP_005821.2
NCBI GenBank Nucleotide #	NM_005830.3
UniProt Accession #	Q92665; Q5VYC8; Q8WTV8; B2RCS3
Molecular Weight	Calculated MW: 45kDa Observed MW: 38kDa
UniProt Protein Name	28S ribosomal protein S31, mitochondrial
UniProt Gene Name	MRPS31
UniProt Synonym Gene Names	IMOGN38; MRP-S31; S31mt
UniProt Entry Name	RT31_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.