

Rabbit MTO1 Polyclonal Antibody | anti-MTO1 antibody

MTO1 Antibody

CATALOG # AAA323038	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

MTO1; Polyclonal Antibody; MTO1 Antibody; mitochondrial MTO1 3; mitochondrial translation optimization 1 homolog; protein MTO1 homolog; mitochondrial precursor; anti-MTO1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	MTO1 antibody detects endogenous levels of MTO1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	732
Applicable Applications for anti-MTO1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human MTO1.
Subcellular Location	Mitochondrial
Tissue Specificity	Ubiquitously expressed in various tissues, but with a markedly elevated expression in tissues of high metabolic rates including cochlea.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Zebrafish (82%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemisry)

AAA323038 at 1/100 staining Human lymph cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from mouse brain, using MTO1 antibody. Lane 1 was treated with the blocking peptide.



WB (Western Blot)

Western blot analysis of extracts of Jurkat cells, using MTO1 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-MTO1 antibody	Function: Involved in the 5-carboxymethylaminomethyl modification (mnm5s2U34) of the wobble uridine base in mitochondrial tRNAs. Similarity: Belongs to the MnmG family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	183227703
NCBI GeneID	25821
NCBI Accession #	NP_001116698.1
NCBI GenBank Nucleotide #	NM_001123226.1
UniProt Accession #	Q9Y2Z2; Q5SWL2; Q5SWL3; Q5SWL4; Q8NDN7; Q8WZ57; Q96FE6; Q9BS06; B3KQB5
Molecular Weight	Observed: 70-75 kDa Predicted: 80 kDa
NCBI Official Full Name	protein MTO1 homolog, mitochondrial isoform c
NCBI Official Synonym Full Names	mitochondrial tRNA translation optimization 1
NCBI Official Symbol	MTO1
NCBI Official Synonym Symbols	CGI-02; COXPD10
NCBI Protein Information	protein MTO1 homolog, mitochondrial
UniProt Protein Name	Protein MTO1 homolog, mitochondrial
UniProt Gene Name	MTO1

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.