

MTO1 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI13694**Specification**

MTO1 antibody - N-terminal region - Product Information

Application	WB
Primary Accession	O9Y2Z2
Other Accession	NM_001123226 , NP_001116698
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rabbit, Chicken, Horse, Bovine, Guinea Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	81kDa KDa

MTO1 antibody - N-terminal region - Additional Information**Gene ID** 25821

Alias Symbol	CGI-02
Other Names	
Protein MTO1 homolog, mitochondrial, MTO1	

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-MTO1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

MTO1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

MTO1 antibody - N-terminal region - Protein Information**Name** MTO1 ([HGNC:19261](#))**Function**

Component of the GTPBP3-MTO1 complex that catalyzes the 5- taurinomethyluridine (taum(5)U) modification at the 34th wobble position (U34) of mitochondrial tRNAs (mt-tRNAs), which plays a role in mt-tRNA decoding and mitochondrial translation (PubMed:29390138, PubMed:33619562). Taum(5)U formation on mammalian mt-tRNA requires the presence of both GTPBP3-mediated GTPase activity and MTO1 catalytic activity (PubMed:<a href="http://www.uniprot.org/citations/29390138"

target="_blank">29390138).

Cellular Location

Mitochondrion {ECO:0000250|UniProtKB:Q923Z3}.

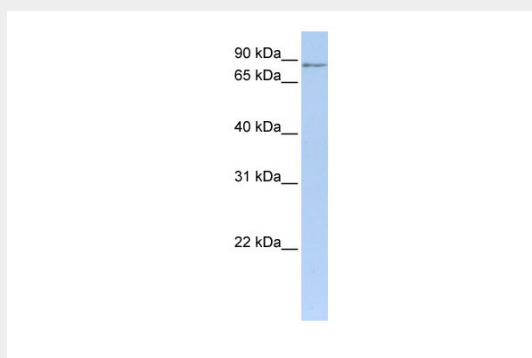
Tissue Location

Ubiquitously expressed in various tissues, but with a markedly elevated expression in tissues of high metabolic rates including cochlea.

MT01 antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MT01 antibody - N-terminal region - Images

WB Suggested Anti-MT01 Antibody Titration: 0.2-1 µg/ml

ELISA Titer: 1:62500

Positive Control: Human Muscle

MT01 antibody - N-terminal region - References

- Li X.M.,et al.J. Biol. Chem. 277:27256-27264(2002).
Lai C.-H.,et al.Genome Res. 10:703-713(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Totoki Y.,et al.Submitted (JUL-2006) to the EMBL/GenBank/DDBJ databases.
Mungall A.J.,et al.Nature 425:805-811(2003).