

# MTO1 antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI13694

## Product Information

|                   |                                                                |
|-------------------|----------------------------------------------------------------|
| Application       | WB                                                             |
| Primary Accession | <a href="#">Q9Y2Z2</a>                                         |
| Other Accession   | <a href="#">NM_001123226</a> , <a href="#">NP_001116698</a>    |
| Reactivity        | Human, Mouse, Rat, Rabbit, Pig, Dog, Guinea Pig, Horse, Bovine |
| Predicted         | Human, Mouse, Rabbit, Chicken, Dog, Guinea Pig, Horse, Bovine  |
| Host              | Rabbit                                                         |
| Clonality         | Polyclonal                                                     |
| Calculated MW     | 79964                                                          |

## 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.                                                                           |

## Protein Information

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name              | MTO1 ( <a href="#">HGNC:19261</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 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: <a href="#">29390138</a> , PubMed: <a href="#">33619562</a> ). Taum(5)U formation on mammalian mt-tRNA requires the presence of both GTPBP3-mediated GTPase activity and MTO1 catalytic activity (PubMed: <a href="#">29390138</a> ). |
| 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.

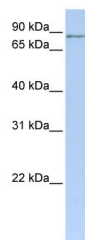
## References

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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).

## Images

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WB Suggested Anti-MTO1 Antibody Titration: 0.2-1 µg/ml  
ELISA Titer: 1:62500  
Positive Control: Human Muscle

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