

Ghitm antibody - middle region
Rabbit Polyclonal Antibody
Catalog # AI12738**Specification**

Ghitm antibody - middle region - Product Information

Application	WB
Primary Accession	O91VC9
Other Accession	NM_078478 , NP_510963
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Goat, Horse, Bovine, Guinea Pig, Dog
Predicted	Human, Mouse, Rat, Pig, Horse, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37kDa KDa

Ghitm antibody - middle region - Additional Information**Gene ID** 66092**Alias Symbol** 1010001P14Rik, C77840, PTD010, MICS1**Other Names**

Growth hormone-inducible transmembrane protein, Mitochondrial morphology and cristae structure 1, MICS1, Ghitm, Mics1

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-Ghitm 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

Ghitm antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

Ghitm antibody - middle region - Protein Information**Name** Ghitm**Synonyms** Mics1**Function**

Plays an important role in maintenance of mitochondrial morphology and in mediating either calcium or potassium/proton antiport (PubMed:35715207). Mediates proton-dependent calcium efflux from mitochondrion (By similarity). Functions also as an

electroneutral mitochondrial proton/potassium exchanger (PubMed:35715207). Required for the mitochondrial tubular network and cristae organization (PubMed:35715207). Involved in apoptotic release of cytochrome c (By similarity). Inhibits AFG3L2 proteolytic activity, stimulating respiration and stabilizing respiratory enzymes in actively respiring mitochondria (By similarity). However, when mitochondria become hyperpolarized, GHITM loses its inhibitory activity toward AFG3L2 and the now active AFG3L2 turns first on GHITM and, if hyperpolarization persists, on other proteins of the mitochondria, leading to a broad remodeling of the mitochondrial proteome (By similarity).

Cellular Location

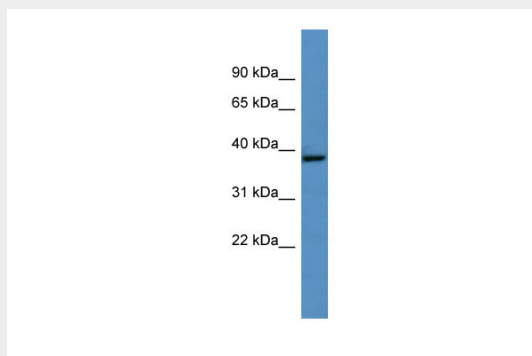
Mitochondrion inner membrane {ECO:0000250|UniProtKB:Q9H3K2}; Multi-pass membrane protein

Ghitm antibody - middle 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](#)

Ghitm antibody - middle region - Images



WB Suggested Anti-Ghitm Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:62500
Positive Control: Mouse Liver