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Ghitm antibody - middle region

Rabbit Polyclonal Antibody
Catalog # AI12738

Product Information

Application	WB
Primary Accession	Q91VC9
Other Accession	NM_078478, NP_510963
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Goat, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Pig, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37275

Additional Information

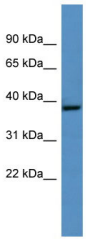
Gene ID	66092
Alias Symbol	1010001P14Rik, C77840, PTD010, MICS1
Other Names	Growth hormone-inducible transmembrane protein, Mitochondrial morphology and cristae structure 1, MICS1, Ghitm, Mics1
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & 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.

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). Also functions 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

Images



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

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