

Rabbit LETM1 Polyclonal Antibody | anti-LETM1 antibody

LETM1 Antibody

CATALOG # AAA323241	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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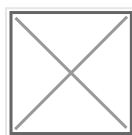
PRODUCT SYNONYMS

LETM1; Polyclonal Antibody; LETM1 Antibody; LETM 1; LETM1 and EF hand domain containing protein 1; mitochondrial; LETM1 and EF-hand domain-containing protein 1; Letm1; LETM1_HUMAN; Leucine zipper EF hand containing transmembrane protein 1; Leucine zipper-EF-hand-containing transmembrane protein 1; Mdm38 homolog; anti-LETM1 antibody

PRODUCT SPECIFICATIONS

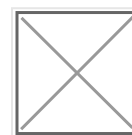
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	LETM1 antibody detects endogenous levels of LETM1.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	739
Applicable Applications for anti-LETM1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human LETM1.
Subcellular Location	Mitochondrion Inner Membrane.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (92%), Bovine (92%), Horse (100%), Sheep (92%), Dog (100%), Chicken (92%), Xenopus (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)

AAA323241 at 1/100 staining Human pancreas 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 of Ramos cells, using LETM1 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-LETM1 antibody	Function: Mitochondrial proton/calcium antiporter that mediates proton-dependent calcium efflux from mitochondrion (PubMed:19797662). Crucial for the maintenance of mitochondrial tubular networks and for the assembly of the supercomplexes of the respiratory chain (PubMed:18628306). Required for the maintenance of the tubular shape and cristae organization (PubMed:18628306). In contrast to SLC8B1/NCLX, does not constitute the major factor for mitochondrial calcium extrusion (PubMed:24898248). Subunit Structure: Homohexamer (By similarity). Can form 2 complexes: a major (300 kDa) and a minor complex (500-600 kDa) (PubMed:18628306). Interacts with BCS1L (PubMed:18628306). Similarity: Belongs to the LETM1 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6912482
NCBI GeneID	3954
NCBI Accession #	NP_036450.1
NCBI GenBank Nucleotide #	NM_012318.2
UniProt Accession #	O95202; Q9UF65; B4DED2
Molecular Weight	Observed: 83 kDa Predicted: 84 kDa
NCBI Official Full Name	mitochondrial proton/calcium exchanger protein
NCBI Official Synonym Full Names	leucine zipper and EF-hand containing transmembrane protein 1
NCBI Official Symbol	LETM1
NCBI Official Synonym Symbols	SLC55A1
NCBI Protein Information	mitochondrial proton/calcium exchanger protein
UniProt Protein Name	Mitochondrial proton/calcium exchanger protein
UniProt Gene Name	LETM1

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.