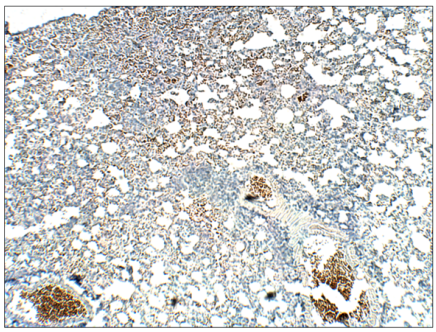
YME1L1 Antibody – Rabbit Polyclonal

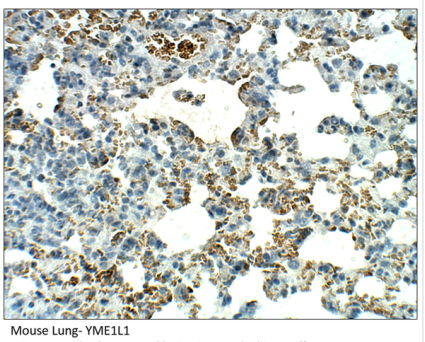
PRODUCT OVERVIEW

Product Name	YME1L1, Polyclonal Antibody
Full Product Name	YME1L1 Antibody
Product Gene Name	anti-YME1L1 antibody
Product Synonym Names	ATP dependent metalloprotease FtsH1 homolog; ATP-dependent zinc metalloprotease YME1L1; FTSH1; Meg-4; MEG4; PAMP; Presenilin-associated metalloprotease; UNQ1868/PRO4304; YME1 like 1; YME1-like protein 1; YME1L antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Affinity Purified
Concentration	0.5 ug/ul in antibody stabilization buffer (lot specific)
Preparation and Storage	-20• degree C for long term storage
Matching Pairs	Antibody: YME1L1 (MBS5400278) Positive Control: YME1L1 (MBS543405)
Antibody/Peptide Pairs	YME1L1 peptide (MBS544671) is used for blocking the activity of YME1L1 antibody (MBS5400278)
Molecular Weight	75,982 Da
OMIM	607472
3D Structure	ModBase 3D Structure for Q96TA2
Immunogen	Synthetic peptide taken within amino acid region 720-773 on human ATP-dependent metalloprotease YME1L1 protein.
Immunoglobulin	IgG
Expression	High expression in cardiac and skeletal muscle mitochondria.
Molecular Function	Hydrolase, Metalloprotease, Protease
Structure	In the N-terminal section; belongs to the AAA ATPase family. In the C-terminal section; belongs to the peptidase M41 family.
Subcellular Location	Mitochondrion inner membrane
Product Categories/Family for anti-YME1L1 antibody	Primary Antibodies; Metabolism & Homeostasis; YME1L1 Antibody
Applications Tested/Suitable for anti-YME1L1 antibody	ELISA (EIA), Immunohistochemistry (IHC), Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-YME1L1 antibody	ELISA: 1:10,000 Immunocytochemistry: 1:100 Immunohistochemistry: 1:100 Immunoprecipitation: 1:200 Western Blot: 1:500

Related Product Information for anti-YME1L1 antibody	Affinity Purified ATP-dependent metalloprotease YME1L1 Antibody Putative ATP-dependent protease which plays a role in mitochondrial protein metabolism. Ensures cell proliferation, maintains normal cristae morphology and complex I respiration activity, promotes antiapoptotic activity and protects mitochondria from the accumulation of oxidatively damaged membrane proteins. Requires to control the accumulation of nonassembled respiratory chain subunits (NDUFB6, OX4 and ND1). Seems to act in the processing of OPA1.
Other Notes	Small volumes of anti-YME1L1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for YME1L1 purchase	MBS5400278 is an antibody targeting YME1L1. Also known as YME1L1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-YME1L1 antibody



Immunohistochemistry (IHC) of anti-YME1L1 antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for YME1L1. It may not necessarily be applicable to this product.

NCBI GI #	46397258
NCBI GeneID	10730
NCBI Accession #	Q96TA2.2
UniProt Primary Accession #	Q96TA2
UniProt Secondary Accession #	Q5T8D9; Q9H1Q0; Q9UMR9; B4DNM1; D3DRV8; D3DRV9
UniProt Related Accession #	Q96TA2
NCBI Official Full Name	ATP-dependent zinc metalloprotease YME1L1
NCBI Official Synonym Full Names	YME1 like 1 ATPase
NCBI Official Symbol	YME1L1
NCBI Official Synonym Symbols	FTSH; MEG4; PAMP; YME1L
UniProt Protein Name	ATP-dependent zinc metalloprotease YME1L1
UniProt Synonym Protein Names	ATP-dependent metalloprotease FtsH1; Meg-4; Presenilin-associated metalloprotease; PAMP; YME1-like protein 1
Protein Family	ATP-dependent zinc metalloprotease
UniProt Gene Name	YME1L1
UniProt Synonym Gene Names	FTSH1; YME1L; PAMP
UniProt Entry Name	YMEL1_HUMAN
NCBI Protein Information	ATP-dependent zinc metalloprotease YME1L1

NCBI Summary for YME1L1	The protein encoded by this gene is the human ortholog of yeast mitochondrial AAA metalloprotease, Yme1p. It is localized in the mitochondria and can functionally complement a yme1 disruptant yeast strain. It is proposed that this gene plays a role in mitochondrial protein metabolism and could be involved in mitochondrial pathologies. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]
UniProt Comments for YME1L1	YME1L1: Putative ATP-dependent protease which plays a role in mitochondrial protein metabolism. Ensures cell proliferation, maintains normal cristae morphology and complex I respiration activity, promotes antiapoptotic activity and protects mitochondria from the accumulation of oxidatively damaged membrane proteins. Requires to control the accumulation of nonassembled respiratory chain subunits (NDUFB6, OX4 and ND1). Seems to act in the processing of OPA1. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Protease; Mitochondrial; EC 3.4.24.- Chromosomal Location of Human Ortholog: 10p14 Cellular Component: integral to membrane; membrane; mitochondrial inner membrane; mitochondrion; nucleoplasm Molecular Function: ATP binding; ATP-dependent peptidase activity; metal ion binding; metalloendopeptidase activity; metallopeptidase activity Biological Process: cell proliferation; misfolded or incompletely synthesized protein catabolic process; mitochondrion organization and biogenesis
Research Articles on YME1L1	**1.** YME1L degradation reduces mitochondrial proteolytic capacity during oxidative stress.Loss of YME1L compromises the regulation of mitochondrial inner membrane proteostasis.
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