YMEL1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	YMEL1, Polyclonal Antibody
Full Product Name	YMEL1, NT (YME1L1, FTSH1, YME1L, ATP-dependent zinc metalloprotease YME1L1, ATP-dependent metalloprotease FtsH1, Meg-4, Presenilin-associated metalloprotease, YME1-like protein 1) (MaxLight 650)
Product Gene Name	anti-YMEL1 antibody
Product Synonym Gene Name	YME1L1
Product Synonym Names	YME1L1; FTSH1; YME1L; ATP-dependent zinc metalloprotease YME1L1; ATP-dependent metalloprotease FtsH1; Meg-4; Presenilin-associated metalloprotease; YME1-like protein 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Hamster, Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	75,982 Da
OMIM	607472
3D Structure	ModBase 3D Structure for Q96TA2
Immunogen	YMEL1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between amino acids 140-170 from the N-terminal region of human YMEL1.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-YMEL1 antibody	Antibodies; Enzymes
Applications Tested/Suitable for anti-YMEL1 antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-YMEL1 antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-YMEL1 antibody	YMEL1 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.
Product References and Citations for anti-YMEL1 antibody	Grupe, A., et al. Am. J. Hum. Genet. 78(1):78-88(2006). Deloukas, P., et al. Nature 429(6990):375-381(2004). Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003).

Other Notes	Small volumes of anti-YMEL1 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 YMEL1 purchase	MBS6364333 is an antibody targeting YMEL1. Also known as YMEL1, NT (YME1L1, FTSH1, YME1L, ATP-dependent zinc metalloprotease YME1L1, ATP-dependent metalloprotease FtsH1, Meg-4, Presenilin-associated metalloprotease, YME1-like protein 1) (MaxLight 650). Reactive in Hamster, Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for YMEL1. 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
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 YMEL1	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 YMEL1	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: Mitochondrial; Protease; 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 YMEL1	**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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