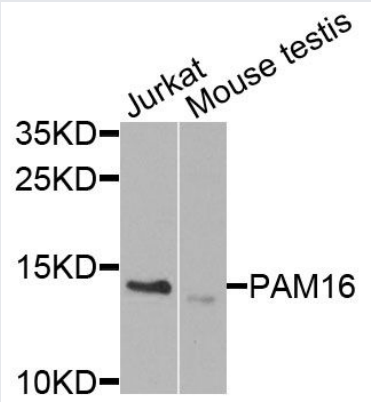
PAM16 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PAM16, Polyclonal Antibody
Full Product Name	PAM16 Polyclonal Antibody
Product Gene Name	anti-PAM16 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.
Molecular Weight	Calculated MW: 14kDa Molecular Weight: 125
OMIM	613320
3D Structure	ModBase 3D Structure for Q9Y3D7
Immunogen	Recombinant protein of human PAM16
Product Categories/Family for anti-PAM16 antibody	Polyclonal
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-PAM16 antibody	Western Blot (WB)
Application Notes for anti-PAM16 antibody	WB: 1:500 - 1:2000
Related Product Information for anti-PAM16 antibody	MBS9130411 is an antibody targeting PAM16. Also known as PAM16 Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-PAM16 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.



Western Blot (WB) of anti-PAM16 antibody
Western blot analysis of extracts of various cell lines, using PAM16 antibody at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (MBS128200) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit.Exposure time: 90s.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PAM16. It may not necessarily be applicable to this product.

NCBI GI #	27363461
NCBI GeneID	51025
NCBI Accession #	NP_057153.8
UniProt Primary Accession #	Q9Y3D7
UniProt Secondary Accession #	Q6I9Z3; Q9H5X3
UniProt Related Accession #	Q9Y3D7
GenBank Nucleotide #	NM_016069.9
NCBI Official Full Name	mitochondrial import inner membrane translocase subunit TIM16
NCBI Official Synonym Full Names	presequence translocase-associated motor 16 homolog (S. cerevisiae)
NCBI Official Symbol	PAM16
NCBI Official Synonym Symbols	TIM16; MAGMAS; SMDMDM; TIMM16; CGI-136
UniProt Protein Name	Mitochondrial import inner membrane translocase subunit TIM16
UniProt Synonym Protein Names	Mitochondria-associated granulocyte macrophage CSF-signaling molecule; Presequence translocated-associated motor subunit PAM16
Protein Family	Mitochondrial import inner membrane translocase
UniProt Gene Name	PAM16
UniProt Synonym Gene Names	MAGMAS; TIM16; TIMM16
UniProt Entry Name	TIM16_HUMAN
NCBI Protein Information	mitochondrial import inner membrane translocase subunit TIM16

UniProt Comments for PAM16	Magmas: Regulates ATP-dependent protein translocation into the mitochondrial matrix. Inhibits DNAJC19 stimulation of HSPA9/Mortalin ATPase activity. Belongs to the TIM16/PAM16 family. Protein type: Mitochondrial Chromosomal Location of Human Ortholog: 16p13.3 Cellular Component: mitochondrial matrix; protein complex Molecular Function: protein binding Biological Process: cellular protein metabolic process; negative regulation of ATPase activity; ossification; protein import into mitochondrial matrix; protein targeting to mitochondrion Disease: Spondylometaphyseal Dysplasia, Megarbane-dagher-melki Type
Research Articles on PAM16	**1.** A novel essential role of Magmas is a 'ROS regulatory protein' in the maintenance of cellular redox homeostasis and imparting cytoprotection under oxidative stress.
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