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TIMM9 Rabbit pAb

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Catalog # AP57720

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q9Y5J7
Predicted	Human, Mouse, Rat, Pig, Horse, Rabbit, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	10378
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TIMM9
Epitope Specificity	1-50/89
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Mitochondrion inner membrane.
SIMILARITY	Belongs to the small Tim family.
SUBUNIT	Heterohexamer; composed of 3 copies of TIMM9 and 3 copies of TIMM10/TIM10A, named soluble 70 kDa complex. The complex forms a 6-bladed alpha-propeller structure and associates with the TIMM22 component of the TIM22 complex. Interacts with multi-pass transmembrane proteins in transit. Also forms a complex composed of TIMM9, TIMM10/TIM10A and FXC1/TIM10B.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	TIMM9 belongs to a family of evolutionarily conserved proteins that are organized in heterooligomeric complexes in the mitochondrial intermembrane space. These proteins mediate the import and insertion of hydrophobic membrane proteins into the mitochondrial inner membrane.[supplied by OMIM, Apr 2004]

Additional Information

Gene ID	26520
Other Names	Mitochondrial import inner membrane translocase subunit Tim9, TIMM9, TIM9, TIM9A, TIMM9A
Target/Specificity	Ubiquitous, with highest expression in heart, kidney, liver and skeletal muscle.
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When

reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	TIMM9
Synonyms	TIM9, TIM9A, TIMM9A
Function	Mitochondrial intermembrane chaperone that participates in the import and insertion of multi-pass transmembrane proteins into the mitochondrial inner membrane. May also be required for the transfer of beta-barrel precursors from the TOM complex to the sorting and assembly machinery (SAM complex) of the outer membrane. Acts as a chaperone-like protein that protects the hydrophobic precursors from aggregation and guide them through the mitochondrial intermembrane space.
Cellular Location	Mitochondrion inner membrane; Peripheral membrane protein; Intermembrane side
Tissue Location	Ubiquitous, with highest expression in heart, kidney, liver and skeletal muscle.

Background

TIMM9 belongs to a family of evolutionarily conserved proteins that are organized in heterooligomeric complexes in the mitochondrial intermembrane space. These proteins mediate the import and insertion of hydrophobic membrane proteins into the mitochondrial inner membrane.[supplied by OMIM, Apr 2004]