

Rabbit OMA1 Polyclonal Antibody | anti-OMA1 antibody

OMA1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA323258	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot

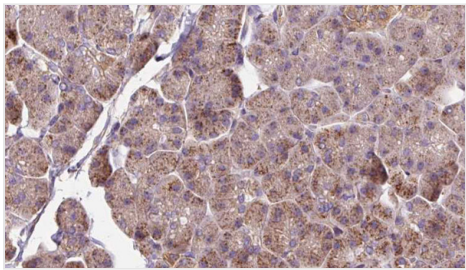
PRODUCT SYNONYMS

OMA1; Polyclonal Antibody; OMA1 Antibody; 2010001O09Rik; DAB1; FLJ33782; Metalloendopeptidase OMA1; mitochondrial; Metalloprotease-related protein 1; MPRP 1; MPRP-1; MPRP1; OMA1 homolog zinc metallopeptidase; OMA1 homolog; zinc metallopeptidase (S. cerevisiae); OMA1 zinc metallopeptidase; OMA1 zinc metallopeptidase homolog; OMA1_HUMAN; Overlapping activity with M-AAA protease; Overlapping with the m-AAA protease 1 homolog; peptidase; YKR087C; Zinc metallopeptidase OMA1; ZMPOMA1; anti-OMA1 antibody

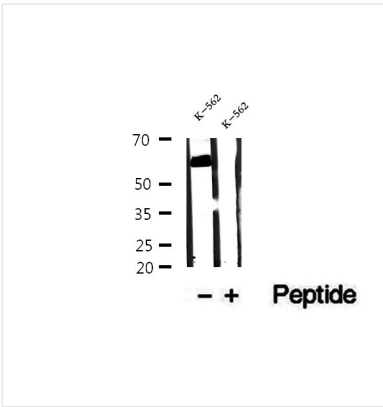
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	OMA1 antibody detects endogenous levels of OMA1.
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	524
Applicable Applications for anti-OMA1 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human OMA1.
Subcellular Location	Mitochondrion Membrane.
Tissue Specificity	Widely expressed, with strong expression in the heart, skeletal muscle, kidney and liver.
Predicted Cross Reactivity	Zebrafish, Bovine, Sheep, Rabbit
Similarity	Zebrafish (83%), Bovine (83%), Sheep (83%), Rabbit (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA323258 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 K-562 cells, using OMA1 antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-OMA1 antibody	Function: Metalloprotease that is part of the quality control system in the inner membrane of mitochondria. Following stress conditions that induce loss of mitochondrial membrane potential, mediates cleavage of OPA1 at S1 position, leading to OPA1 inactivation and negative regulation of mitochondrial fusion. May also cleave UQC3 under these conditions. Its role in mitochondrial quality control is essential for regulating lipid metabolism as well as to maintain body temperature and energy expenditure under cold-stress conditions. Post-translational Modifications: In normal conditions, cleaved into an inactive 40 kDa form. Following CCCP treatment that induces loss of mitochondrial membrane potential, the 40 kDa form is reduced in favor of an active 60 kDa form. Similarity: Belongs to the peptidase M48 family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	21686999
NCBI GeneID	115209
NCBI Accession #	NP_660286.1
NCBI GenBank Nucleotide #	NM_145243.4
UniProt Accession #	Q96E52; Q5T3G6; Q5T3G7; Q5T3G8; Q5T3G9; Q5T3H0; Q8NBB3; D3DQ54
Molecular Weight	Observed: 60 kDa Predicted: 61 kDa
NCBI Official Full Name	metalloendopeptidase OMA1, mitochondrial
NCBI Official Synonym Full Names	OMA1 zinc metallopeptidase
NCBI Official Symbol	OMA1
NCBI Official Synonym Symbols	DAB1; MPRP1; MPRP-1; YKR087C; ZMPOMA1; peptidase; 2010001O09Rik
NCBI Protein Information	metalloendopeptidase OMA1, mitochondrial
UniProt Protein Name	Metalloendopeptidase OMA1, mitochondrial
UniProt Gene Name	OMA1
UniProt Synonym Gene Names	MPRP1; MPRP-1

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.

