



OMA1 mouse mAb

Catalog No	YP-mAb-17996
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	OMA1 MPRP1
Immunogen	Synthesized peptide derived from human OMA1
Specificity	This antibody detects endogenous levels of OMA1 at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	2010001O09Rik;DAB1;MPRP 1;MPRP1;OMA1;YKR087C;ZMPOMA1;OMA1 MPRP1;Metalloendopeptidase OMA1;mitochondrial (EC 3.4.24.-) (Metalloprotease-related protein 1) (MPRP-1) (Overlapping with the m-AAA protease 1 homolog); mitochondrial (EC 3.4.24.-) (Metalloprotease-related protein 1) (MPRP-1) (Overlapping with the m-AAA protease 1 homolog)
Observed Band	34, 60 kDa
Calculated Molecular Weight	524 aa, 60 kDa
Cell Pathway	Mitochondrion inner membrane ; Single-pass membrane protein .
Tissue Specificity	Widely expressed, with strong expression in the heart, skeletal muscle, kidney and liver.
Function	Metalloprotease that is part of the quality control system in the inner membrane of mitochondria . Activated in response to various mitochondrial stress, leading to the proteolytic cleavage of target proteins, such as OPA1, UQC3 and DELE1 . 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 . Also acts as a regulator of apoptosis: upon BAK and BAX aggregation, mediates cleavage of OPA1, leading to the remodeling of mitochondrial cristae and allowing the



release of cytochrome c from mitochondrial cristae . In depolarized mitochondria, may also act as a backup protease for PINK1 by mediating PINK1 cleavage and promoting its subsequent degradation by the proteasome . May also cleave UQCC3 in response to mitochondrial depolarization . Also ac

Background

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images