

OMA1 (D4J7K) Rabbit mAb



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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 37	Source/Isotype: Rabbit IgG	UniProt ID: #Q96E52	Entrez-Gene Id: 115209
Product Usage Information	2	Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		OMA1 (D4J7K) Rabbit mAb recognizes endogenous levels of total OMA1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu504 of human OMA1 protein.				
Background		various physiological membrane. Constitut long isoforms (L-OPA required to maintain and processed into a However, various stre	cues (1,2). The GTP ive proteolytic proc 1) into short isform: a normal morpholo mature form (5,6). (ss stimuli can furth	se. This dynamic process ase OPA1 mediates the f esses mediated by OMA' s (S-OPA1). The balance b gy of mitochondria (3,4). OMA1 is constitutively ac er activate OMA1 and res inhibits fusion and caus	usion of the mitoch 1 (S1 site) and YME between L-OPA1 an OMA1 is synthesize tive and cleaves L-0 sult in the rapid and	ondrial inner IL (S2 site) convert d S-OPA1 is ed as a precursor DPA1 at the S1 site. d complete
Background References		1. Chan, D.C. (2012) <i>Annu Rev Genet</i> 46, 265-87. 2. Lee, H. and Yoon, Y. (2016) <i>Biochem Soc Trans</i> 44, 1725-1735. 3. Anand, R. et al. (2014) <i>J Cell Biol</i> 204, 919-29. 4. MacVicar, T. and Langer, T. (2016) <i>J Cell Sci</i> 129, 2297-306. 5. Head, B. et al. (2009) <i>J Cell Biol</i> 187, 959-66. 6. Baker, M.J. et al. (2014) <i>EMBO J</i> 33, 578-93.				
Species Reacti	vity	Species reactivity is do	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Key		W: Western Blotting				
Cross-Reactivity Key		H: Human				
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