

OPA1 (D6U6N) Rabbit mAb



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Applications: W, W-S, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 80-100	Source/Isotype: Rabbit IgG	UniProt ID: #O60313	Entrez-Gene Id: 4976
Product Usage Information		Application Western Blotting Simple Western™ Immunoprecipitation			Dilution 1:1000 1:50 - 1:250 1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		OPA1 (D6U6N) Rabbit mAb recognizes endogenous levels of total OPA1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu821 of human OPA1 protein.				
Background		shape and have been autophagy (1). These pincluding mitofusin-1, mitofusins and OPA1 of OPA1, or Optic Atroph Atrophy, a neuropathy localized to the inner morphology and protesplicing and post-transproteases (7-12). In additional protesses (7-12).	shown to dramatical processes are large mitofusin-2, OPA1, control fusion at the y 1, was originally in resulting in programitochondrial mements against apoptoslational modificati dition, OPA1 expre	lated by environmental ally impact mitochondrily controlled by mitocho and DRP1. DRP1 regulate outer and inner mitocho dentified as a genetic cassive visual loss (2,3). Cabrane, which regulates sis (4-6). OPA1 activity isons including complex passion can be induced unded NF-KB activation (13	al metabolism, apopondrial dynamin-relates mitochondrial fhondrial membrane ause for Autosomal DPA1 is a widely expmitochondrial fusics tightly regulated thoroteolytic processinder conditions of membrane applications of m	otosis, and ated GTPases, ission, while the e, respectively. Dominant Optic ressed protein and cristae hrough alternative ng by multiple
Background Re	ferences	1. Kasahara, A. and Scorrano, L. (2014) <i>Trends Cell Biol</i> 24, 761-70. 2. Delettre, C. et al. (2000) <i>Nat Genet</i> 26, 207-10. 3. Alexander, C. et al. (2006) <i>Cell</i> 126, 177-89. 4. Frezza, C. et al. (2003) <i>J Biol Chem</i> 278, 7743-6. 6. Griparic, L. et al. (2004) <i>J Biol Chem</i> 279, 18792-8. 7. Delettre, C. et al. (2001) <i>Hum Genet</i> 109, 584-91. 8. Olichon, A. et al. (2007) <i>Cell Death Differ</i> 14, 682-92. 9. Ishihara, N. et al. (2006) <i>EMBO J</i> 25, 2966-77. 10. Cipolat, S. et al. (2006) <i>Cell</i> 126, 163-75. 11. Griparic, L. et al. (2007) <i>J Cell Biol</i> 178, 757-64. 12. Merkwirth, C. et al. (2008) <i>Genes Dev</i> 22, 476-88. 13. Müller-Rischart, A.K. et al. (2013) <i>Mol Cell</i> 49, 908-21.				

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

 Applications Key
 W: Western Blotting W-S: Simple Western™ IP: Immunoprecipitation

Cross-Reactivity Key H: Human M: Mouse R: Rat

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