

## 7589

## OPA1 (D7C1A) Rabbit mAb



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## For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: F W, IP, IF-IC	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 80-100	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #060313	Entrez-Gene Id: 4976
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation Immunofluorescence		istry)		<b>Dilution</b> 1:1000 1:100 1:800
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		OPA1 (D7C1A) recognizes endogenous levels of total OPA1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to a central region of human OPA1 protein.				
Background		shape and have been autophagy (1). These including mitofusin-1, mitofusins and OPA1  OPA1, or Optic Atroph Atrophy, a neuropath localized to the inner morphology and prot splicing and post-tran proteases (7-12). In ac	shown to dramatic processes are large mitofusin-2, OPA1 control fusion at th ny 1, was originally y resulting in progr mitochondrial men ects against apopto islational modificati ddition, OPA1 expre	lated by environmental ally impact mitochondria ly controlled by mitocho and DRP1. DRP1 regulate outer and inner mitoche dentified as a genetic cassive visual loss (2,3). Oubrane, which regulates is is (4-6). OPA1 activity is ons including complex passion can be induced unced NF-KB activation (13	al metabolism, apo ndrial dynamin-rel tes mitochondrial f nondrial membrand use for Autosomal PA1 is a widely exp mitochondrial fusion tightly regulated to proteolytic processi der conditions of n	ptosis, and ated GTPases, fission, while the e, respectively. Dominant Optic ressed protein on and cristae hrough alternative ng by multiple
Background Refer	ences	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. (2000) <i>Nat Genet</i> 26, 211-5. 4. Frezza, C. et al. (2006) <i>Cell</i> 126, 177-89. 5. Olichon, A. 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		Consider the standard		g in at least one approve	d and the Man Cons	

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 IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

**Cross-Reactivity Key** 

**H:** Human

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