DRP1 (D8H5) Rabbit mAb



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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 78-82	Source/Isotype: Rabbit IgG	UniProt ID: #O00429	Entrez-Gene Id: 10059
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 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.				
		For a carrier free (BSA and azide free) version of this product see product #54675.				
Specificity/Sensitivity		DRP1 (D8H5) Rabbit mAb recognizes endogenous levels of total DRP1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to the carboxy terminus of human DRP1 protein.				
Background		this family have diverse and intracellular traffic mitochondrial and per- into a spiral-shaped str this structure is likely of required for apoptosis, phosphorylation of DR in 6). When phosphory Conversely, fission is in Dephosphorylation at sumoylation of DRP1 is events is essential for p	e cellular functions king (reviewed in oxisomal fission in octure on the mit onserved in mami, as well as normal P1 at Ser616 by Collated at Ser616, Doublibited when DRF Ser637 by calcineus also an enhancer oroper mitochond in a variety of neu	ember of the dynamin substitution of the dynamin substitution of the dynamin substitution of the dynamin substitution of the dynamic substitut	on, organelle fission indrial morphology The yeast ortholog t the site of fission sion of the mitocholog ment is controlled by protein kinase ndrial fission during ser637 (reviewed in on (7). In addition to 1 (8). Balancing fissi tudies have demon	n, viral resistance, and is important in of DRP1 clusters reviewed in 6), and adria, which is in part, by the A (PKA) (reviewed mitosis. 6). o phosphorylation, on and fusion strated
Background Ref	erences	1. Praefcke, G.J. and McMahon, H.T. (2004) <i>Nat Rev Mol Cell Biol</i> 5, 133-47. 2. Taguchi, N. et al. (2007) <i>J Biol Chem</i> 282, 11521-9. 3. Smirnova, E. et al. (2001) <i>Mol Biol Cell</i> 12, 2245-56. 4. Smirnova, E. et al. (1998) <i>J Cell Biol</i> 143, 351-8. 5. Koch, A. et al. (2003) <i>J Biol Chem</i> 278, 8597-605. 6. Knott, A.B. et al. (2008) <i>Nat Rev Neurosci</i> 9, 505-18. 7. Cereghetti, G.M. et al. (2008) <i>Proc Natl Acad Sci USA</i> 105, 15803-8. 8. Zunino, R. et al. (2007) <i>J Cell Sci</i> 120, 1178-88.				
Species Reactivi	ty	Species reactivity is det	termined 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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: Human M: Mouse R: Rat Mk: Monkey

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