👷 🏹 Mitofusin-1 (D6E2S) Rabbit mAb





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Applications: W, IP, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 82	Source/Isotype: Rabbit IgG	UniProt ID: #Q8IWA4	Entrez-Gene Id: 55669		
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence (Immunocytochemi	stry)	D 1: 1: 1:	ilution 1000 :200 :50 - 1:100		
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 Mitofusin-1 (D6E2S) Rabbit mAb recognizes endogenous levels of total mitofusin				total mitofusin-1 p	rotein.			
Source / Purifica	A Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding residues surrounding Pro551 of human mitofusin-1 protein.				orresponding to			
Background		Mitofusins are mitochondrial transmembrane GTPases that function to regulate mitochondrial fusion, a process that occurs in concert with mitochondrial division and is necessary for the maintenance of structural and genetic mitochondrial integrity (1,2). Two mitofusins have been described in mammals, mitofusin-1 and -2, which share 60% amino acid identity and appear to function coordinately to regulate mitochondrial fusion (3). Mitochondrial fusion is widely recognized as important for normal cell growth and development (4), and may have evolved as a mechanism to offset the deleterious effects of mtDNA mutations (3). Null mutations in either mitofusin are embryonic lethal in mice, whereas conditional knockout studies have shown that combined deletion of mitofusin-1 and mitofusin-2 in skeletal muscle results in severe mitochondrial dysfunction (3).						
Background Ref	erences	1. Zhang, Y. and Chan, 2. Chan, D.C. (2006) <i>An</i> . 3. Chen, H. et al. (2010) 4. Bereiter-Hahn, J. and	D.C. (2007) <i>FEBS Le nu Rev Cell Dev Bio</i> (<i>Cell</i> 141, 280-9. I Vöth, M. (1994) <i>M</i> .	tt 581, 2168-73. / 22, 79-99. icrosc Res Tech 27, 198-2	19.			
Species Reactivi	ty	Species reactivity is det	termined by testing	in at least one approved	d application (e.g.,	western blot).		
Western Blot Bu	ffer	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.				ו 5% w/v BSA, 1X		
Applications Key	,	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)				ytochemistry)		
Cross-Reactivity	Кеу	H: Human						
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