39 Store at -200

Mitofusin-1 (D6E2S) Rabbit mAb



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Applications: WB, IP, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 82	Source/Isotype: Rabbit IgG	UniProt ID: #Q8IWA4	Entrez-Gene Id 55669	
Product Usage Information	Ар	Application				Dilution	
	We	Western Blotting				1:1000	
	Imr	Immunoprecipitation				1:200	
	Imr	Immunofluorescence (Immunocytochemistry)				1:50 - 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 / Sensitiv	ity Mito	Mitofusin-1 (D6E2S) Rabbit mAb recognizes endogenous levels of total mitofusin-1 protein.					
Source / Purification	-	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro551 of human mitofusin-1 protein.					
Background	prod strui mito mito deve muta stud	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 Referer	2. C	 Zhang, Y. and Chan, D.C. (2007) FEBS Lett 581, 2168-73. Chan, D.C. (2006) Annu Rev Cell Dev Biol 22, 79-99. Chen, H. et al. (2010) Cell 141, 280-9. 					

- 4. Bereiter-Hahn, J. and Vöth, M. (1994) Microsc Res Tech 27, 198-219.

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

WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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Mitofusin-1 (D6E2S) Rabbit mAb (#14739) Datasheet Without Images Cell Signaling Technology

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