

49281

Phospho-MFF (Ser146) Antibody



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

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 25, 27	Source/Isotype: Rabbit	UniProt ID: #Q9GZY8-2, #Q9GZY8-5	Entrez-Gene Id: 56947
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-MFF (Ser146) Antibody recognizes endogenous levels of MFF protein only when phosphorylated at Ser146. This antibody has been shown to react with phosphorylated Ser146 of human MFF isoforms 2, 4, and 5 but not phosphorylated Ser172 of human MFF isoform 1 (7). This antibody cross-reacts with a 140kDa protein of unknown identity.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser146 of human MFF isoform 2 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		membrane and is par by serving as one of n studies have also show fission by serving as a Research studies have response to mitochor phosphorylates MFF a Multiple isoforms of N phosphoacceptor site an AMPK phsophoryla	t of the mitochondinultiple receptors fown that MFF is a peareceptor for anothe demonstrated that two sites to allow MFF are expressed as of MFF (Ser172 of ation motif that spation motification mo	l-anchored protein that rial fission complex. MFF or the GTPase dynamin-roxisomal membrane prer GTPase, dynamin-like the ability of MFF to drolled by AMPK-depende for enhanced recruitmes a result of alternative human isoform 1/Ser14 ns the boundary of diffeorms are phosphorylate	participates in miterelated protein 1 (Dotein and participal protein 1 (5,6). ive acute mitochon nt phosphorylation of Drp1 to the mosplicing (8). One of 6 of human isoforn rentially spliced exception 1 (Dotein and 1) and 1) and 1) and 1) and 1) and 1) are protein and 1) and	ochondrial fission rp1) (1-4). Research tes in peroxisome drial fission in . AMPK directly litochondra (7). the major ns 2-5) lies within ons of MFF
Background References		 Liu, R. and Chan, D.C. (2015) Mol Biol Cell 26, 4466-77. Shen, Q. et al. (2014) Mol Biol Cell 25, 145-59. Losón, O.C. et al. (2013) Mol Biol Cell 24, 659-67. Otera, H. et al. (2010) J Cell Biol 191, 1141-58. Itoyama, A. et al. (2013) Biol Open 2, 998-1006. Gandre-Babbe, S. and van der Bliek, A.M. (2008) Mol Biol Cell 19, 2402-12. Toyama, E.Q. et al. (2016) Science 351, 275-81. Ducommun, S. et al. (2015) Cell Signal 27, 978-88. 				
Species Reactiv	rity	Species reactivity is de	etermined 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

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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