

## **MFF Antibody**



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

<b>Applications:</b> W, IP	Reactivity: H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 25, 27, 30, 35	Source/Isotype: Rabbit	UniProt ID: #Q9GZY8	Entrez-Gene Id: 56947
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:200	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		MFF Antibody recognizes endogenous levels of total MFF protein. Based upon sequence alignment, this antibody is predicted to react with isoforms 1-5 of human MFF protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys52 of human MFF protein, isoform 1. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		membrane and is par by serving as one of r studies have also sho fission by serving as a Research studies have response to mitochor phosphorylates MFF a Multiple isoforms of N phosphoacceptor site an AMPK phsophoryla	It of the mitochondrinultiple receptors for which that MFF is a permanent of the months of the month	anchored protein that r al fission complex. MFF r the GTPase dynamin-r oxisomal membrane pr er GTPase, dynamin-like the ability of MFF to dr olled by AMPK-depende for enhanced recruitme is a result of alternative is human isoform 1/Ser14 as the boundary of diffe	participates in mitrelated protein 1 (Dotein and participal protein 1 (5,6). ive acute mitochon nt phosphorylation of Drp1 to the misplicing (8). One of 6 of human isoforrentially spliced exception 1 (Dotein and Drp1) is of the misplicing (8).	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		<ol> <li>Liu, R. and Chan, D.C. (2015) Mol Biol Cell 26, 4466-77.</li> <li>Shen, Q. et al. (2014) Mol Biol Cell 25, 145-59.</li> <li>Losón, O.C. et al. (2013) Mol Biol Cell 24, 659-67.</li> <li>Otera, H. et al. (2010) J Cell Biol 191, 1141-58.</li> <li>Itoyama, A. et al. (2013) Biol Open 2, 998-1006.</li> <li>Gandre-Babbe, S. and van der Bliek, A.M. (2008) Mol Biol Cell 19, 2402-12.</li> <li>Toyama, E.Q. et al. (2016) Science 351, 275-81.</li> <li>Ducommun, S. et al. (2015) Cell Signal 27, 978-88.</li> </ol>				

**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

Cross-Reactivity Key

H: Human M: Mouse

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