Revision 3

Store at +4C

#72287

MFF (E5W4M) XP® Rabbit mAb (Alexa Fluor® 488 Conjugate)

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
IF-IC	H M R	Endogenous	Rabbit IgG	#Q9GZY8	56947

Product Usage Information

Application	Dilution
Immunofluorescence (Immunocytochemistry)	1:50 - 1:200

Storage

Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.

Specificity/Sensitivity

MFF (E5W4M) XP® Rabbit mAb (Alexa Fluor® 488 Conjugate) 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 and isoforms 1-4 of mouse MFF protein.

Species predicted to react based on 100% sequence homology

Bovine, Dog

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro126 of human MFF protein, isoform 1.

Description

This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct immunofluorescent analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated MFF (E5W4M) XP® Rabbit mAb #84580.

Background

Mitochondrial fission factor (MFF) is a tail-anchored protein that resides within the outer mitochondrial membrane and is part of the mitochondrial fission complex. MFF participates in mitochondrial fission by serving as one of multiple receptors for the GTPase dynamin-related protein 1 (Drp1) (1-4). Research studies have also shown that MFF is a peroxisomal membrane protein and participates in peroxisome fission by serving as a receptor for another GTPase, dynamin-like protein 1 (5,6).

Background References

1. Liu, R. and Chan, D.C. (2015) *Mol Biol Cell* 26, 4466-77.
2. Shen, Q. et al. (2014) *Mol Biol Cell* 25, 145-59.
3. Losón, O.C. et al. (2013) *Mol Biol Cell* 24, 659-67.
4. Otera, H. et al. (2010) *J Cell Biol* 191, 1141-58.
5. Itoyama, A. et al. (2013) *Biol Open* 2, 998-1006.
6. Gandre-Babbe, S. and van der Bliek, A.M. (2008) *Mol Biol Cell* 19, 2402-12.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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