

## Product Datasheet

## Anti-MFF Antibody FL490 Conjugate

NeuroMab



KO Validated

## Overview

<b>Catalog #</b>	75-366-FL490
<b>Conjugate</b>	FL490 Ex: 491 nm, Em: 515 nm
<b>Isotype</b>	IgG1
<b>Clone Number</b>	N382/14
<b>Size</b>	200 µL
<b>Concentration</b>	0.5 mg/mL
<b>Host Species</b>	Mouse Monoclonal
<b>Format</b>	Purified by Protein A chromatography
<b>Buffer</b>	PBS with 0.09% azide
<b>Applications</b>	ICC, IHC
<b>Species Reactivity</b>	Human, Mouse, and Rat
<b>Immunogen</b>	Fusion protein amino acids 1-173 (MSKRTSSDTPLGRVSGAAFPSPTASEMAEISRIQYEMEYTEGIS QRM RVPEKLVAPPNADLEQGFQEGV PNASVIMQVPERIVVAGNNEDVSFSRPADLDLIQS TPFKPLALKTPPRVLTLSERPLDFDLERPPVTPQNEEIRAVGRLKRERSMSENAVRQNGQL VRNDSV, cytoplasmic N-terminal exons 1, 2, 3 and 4)
<b>Molecular Weight</b>	40 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-366-FL490, RRID: AB_2940228

## Details

<b>Target Description</b>	Mitochondrial fission factor, also known as Mff, is a tail-anchored, outer mitochondrial membrane protein that is part of a complex process controlling mitochondrial and peroxisomal fission in conjunction with Drp1 and Fis1 (Schrader and Yoon, 2007). The rate of mitochondrial fission and fusion balance each other for cell growth and survival of mitochondria. Fission can be greatly accelerated when cytochrome c is released during apoptosis (Desagher and Martinou, 2000). Mff was identified as an important component of the process through siRNA transfected cells, isolating the protein in the P2 pellet and demonstrating that Mff is exposed to the cytosol (Gandre-Babbe and van der Bliet 2008). Mff has been identified at different stages of the fission process working alongside, rather than in complex with, Fis1 suggesting that Mff contributes to fission independent of the Fis1 complex (Gandre-Babbe and van der Bliet 2008).
<b>Specificity</b>	No cross-reactivity reported

<b>Purification Method</b>	Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography and conjugation of purified mAb. Purified mAbs are >90% specific antibody.
<b>Quality Control Tests</b>	Each new lot of antibody is quality control tested by western blot on rat whole brain lysate and confirmed to stain the expected molecular weight band.
<b>Storage</b>	Aliquot and store at $\leq -20^{\circ}\text{C}$ for long term storage. For short term storage, store at $2-8^{\circ}\text{C}$ . For maximum recovery of product, centrifuge the vial prior to removing the cap.

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