

# CoraLite® Plus 488-conjugated MTMR14 Monoclonal antibody

Catalog Number: **CL488-67561**

## Basic Information

<b>Catalog Number:</b> CL488-67561	<b>GenBank Accession Number:</b> BC050626	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 64419	<b>CloneNo.:</b> 1A8B2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q8NCE2	<b>Recommended Dilutions:</b> IF-P 1:50-1:500
<b>Isotype:</b> IgG2b	<b>Full Name:</b> myotubularin related protein 14	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG6883	<b>Calculated MW:</b> 72 kDa	
	<b>Observed MW:</b> 74 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC	<b>Positive Controls:</b> IF-P : mouse skeletal muscle tissue,
<b>Species Specificity:</b> Human, mouse, rat	

## Background Information

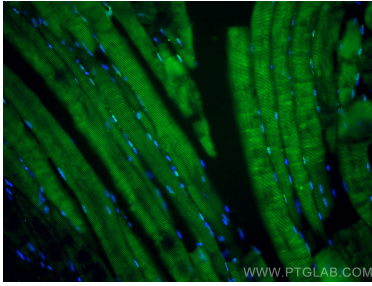
MTMR14, also known as Jumpy, belongs to the MTM1/MTMRs family which has 15 members that divided into two subgroup: catalytically inactive and active. MTMR14 is a catalytically active member possessing an active phosphatase domain, that specifically dephosphorylates PI3P and phosphatidylinositol (3,5)-bisphosphate (PI3,5P2) at position 3 on inositol ring. A remarkable feature of the MTM1/MTMRs family is the association between a catalytically inactive member and a catalytically active member, which plays an important regulatory role. MTMR14 has 3 isoforms with molecular weight of 60-72 kDa, and also can be detected as a higher molecular weight due to the heterodimerization with other MTMR members.

## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse skeletal muscle tissue using Coralite® Plus 488 MTMR14 antibody (CL488-67561, Clone: 1A8B2 ) at dilution of 1:200.