

For Research Use Only

# CoraLite® Plus 488-conjugated SMCR7L Monoclonal antibody



Catalog Number:CL488-67808

## Basic Information

<b>Catalog Number:</b> CL488-67808	<b>GenBank Accession Number:</b> BC002587	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 54471	<b>CloneNo.:</b> 3B3G3
<b>Source:</b> Mouse	<b>Full Name:</b> Smith-Magenis syndrome chromosome region, candidate 7-like	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Isotype:</b> IgG2b	<b>Calculated MW:</b> 463 aa, 51 kDa	<b>Excitation/Emission maxima wavelengths:</b> 488 nm / 515 nm
<b>Immunogen Catalog Number:</b> AG13775	<b>Observed MW:</b> 48-51 kDa	

## Applications

<b>Tested Applications:</b> IF	<b>Positive Controls:</b> IF : mouse testis tissue,
<b>Species Specificity:</b> Human, mouse , rat	

## Background Information

Human SMCR7L gene encodes, MID51, the mitochondrial dynamic protein of 51 kDa (also called mitochondrial elongation factor 1, MIEF1). MID51 is a single-pass membrane protein anchored to the mitochondrial outer membrane and regulates mitochondrial morphology. Mitochondrial morphology is controlled by two opposing processes: fusion and fission. Elevated MID51 levels induce extensive mitochondrial fusion, whereas depletion of MID51 causes mitochondrial fragmentation. MID51 interacts with and recruits Drp1 to mitochondria, suggesting a critical role of MID51 in regulation of mitochondrial fusion-fission machinery in vertebrates.

## Storage

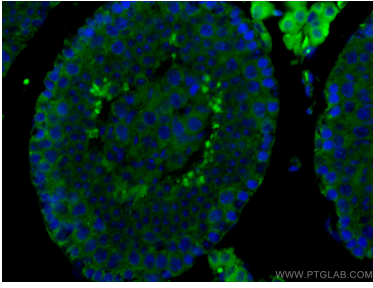
**Storage:**  
Store at -20°C. Avoid exposure to light.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using CoraLite® Plus 488 SMCR7L antibody (CL488-67808, Clone: 3B3G3 ) at dilution of 1:200.