

For Research Use Only

# CoraLite® Plus 488-conjugated RYR1 Monoclonal antibody

Catalog Number: CL488-66539



## Basic Information

<b>Catalog Number:</b> CL488-66539	<b>GenBank Accession Number:</b> NM_000540	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6261	<b>CloneNo.:</b> 1B4E12
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P21817	<b>Recommended Dilutions:</b> IF/ICC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> ryanodine receptor 1 (skeletal)	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG25120	<b>Calculated MW:</b> 565 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC	<b>Positive Controls:</b> IF/ICC : PC-12 cells,
<b>Species Specificity:</b> Human, rat	

## Background Information

Ryanodine receptor isoform-1 (RyR1) is a major calcium channel in skeletal muscle important for excitation-contraction coupling. The transmembrane region of RyR1 is comprised of two domains including the pseudo voltage sensor domain and the pore-forming domain (PMID: 27855725). Dominant RyR1 mutations are the leading cause of MH. Studies on the Ca<sup>2+</sup> conducting properties of RyR1 channels containing Malignant hyperthermia mutations expressed in myotubes.

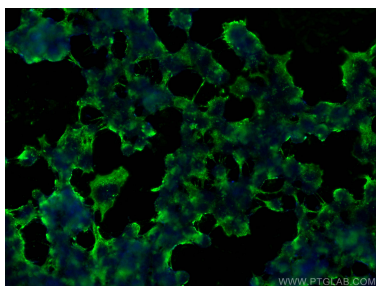
## Storage

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

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)  
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## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed PC-12 cells using CoraLite® Plus 488 RYR1 antibody (CL488-66539, Clone: 1B4E12 ) at dilution of 1:100.