

For Research Use Only

# RyR1 Monoclonal antibody

Catalog Number: 66539-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 66539-1-Ig	<b>GenBank Accession Number:</b> NM_000540	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1800 µg/ml	<b>GeneID (NCBI):</b> 6261	<b>CloneNo.:</b> 1B4E12
<b>Source:</b> Mouse	<b>Full Name:</b> ryanodine receptor 1 (skeletal)	<b>Recommended Dilutions:</b> IHC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 565 kDa	
<b>Immunogen Catalog Number:</b> AG25120		

## Applications

<b>Tested Applications:</b> IHC, ELISA	<b>Positive Controls:</b> IHC : mouse skeletal muscle tissue,
<b>Cited Applications:</b> IHC	
<b>Species Specificity:</b> Human, Mouse	
<b>Cited Species:</b> mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Hang Xiang	36790928	Cell Rep	IHC

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

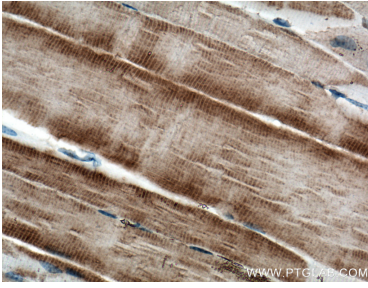
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

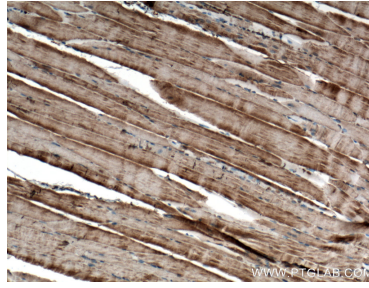
W: [ptgcn.com](http://ptgcn.com)

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## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 66539-1-Ig (RYR1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue slide using 66539-1-Ig (RYR1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).