

RYR1 Monoclonal antibody

Catalog Number: 66539-1-Ig 1 Publications

Basic Information

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

Applications

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

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 Ca²⁺ conducting properties of RyR1 channels containing Malignant hyperthermia mutations expressed in myotubes.

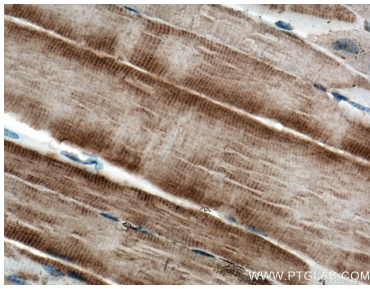
Notable Publications

Author	Pubmed ID	Journal	Application
Hang Xiang	36790928	Cell Rep	IHC

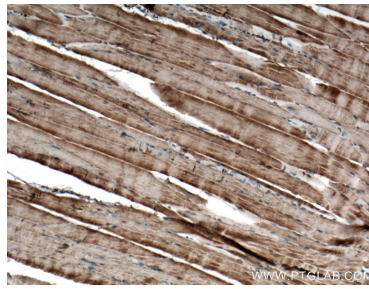
Storage

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

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).