

RYR1 Polyclonal antibody

Catalog Number: 26968-1-AP

1 Publications

Basic Information

Catalog Number: 26968-1-AP	GenBank Accession Number: NM_000540	Purification Method: Antigen affinity purification
Size: 850 µg/ml	GeneID (NCBI): 6261	Recommended Dilutions: IHC 1:50-1:500 IF 1:50-1:500
Source: Rabbit	UNIPROT ID: P21817	
Isotype: IgG	Full Name: ryanodine receptor 1 (skeletal)	
Immunogen Catalog Number: AG25120	Calculated MW: 565 kDa	

Applications

Tested Applications: IF-P, IHC, ELISA	Positive Controls:
Cited Applications: IF	IHC : mouse brain tissue, human cerebellum tissue, human skeletal muscle tissue
Species Specificity: human, mouse	IF : mouse cerebellum tissue, mouse brain tissue
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.

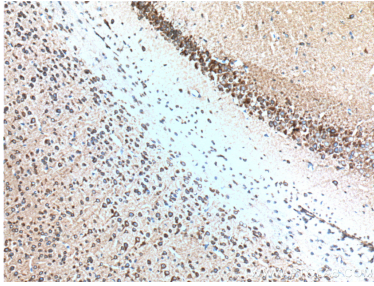
Notable Publications

Author	Pubmed ID	Journal	Application
Benedict Abdon	37535424	JCI Insight	IF

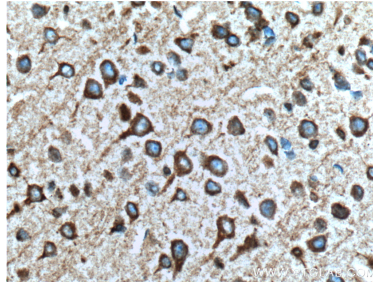
Storage

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

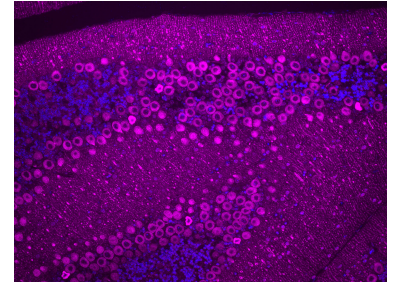
Selected Validation Data



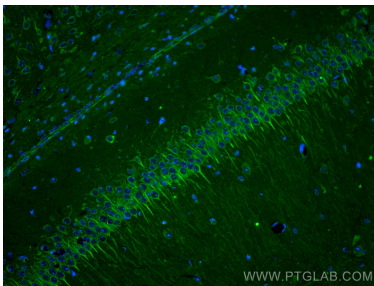
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 26968-1-AP (RYR1 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 26968-1-AP (RYR1 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed mouse cerebellum tissue using RYR1 antibody (26968-1-AP) at dilution of 1:200 and CoraLite®647-conjugated AffiniPure F(ab.



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using RYR1 antibody (26968-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).