

For Research Use Only

RYR1 Polyclonal antibody

Catalog Number: 26968-1-AP

2 Publications



Basic Information

Catalog Number:

26968-1-AP

Size:

150ul, Concentration: 850 ug/ml by Nanodrop and 467 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG25120

GenBank Accession Number:

NM_000540

GeneID (NCBI):

6261

UNIPROT ID:

P21817

Full Name:

ryanodine receptor 1 (skeletal)

Calculated MW:

565 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

IHC 1:50-1:500

IF-P 1:50-1:500

Applications

Tested Applications:

IHC, IF-P, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse

Cited Species:

mouse, chicken

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

IHC : mouse brain tissue, human cerebellum tissue, human skeletal muscle tissue

IF-P : mouse cerebellum tissue, mouse brain tissue

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
Yingsen Liu	39369492	Poult Sci	WB
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

*** 20ul sizes contain 0.1% BSA

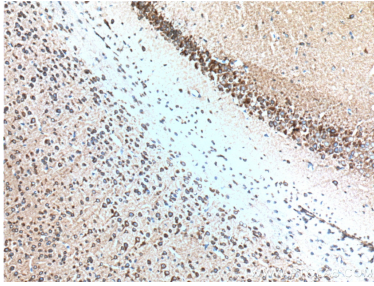
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

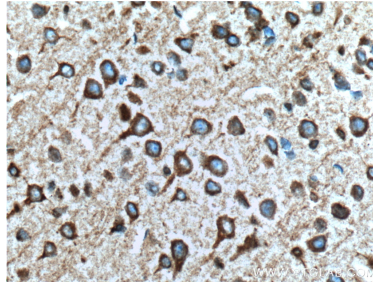
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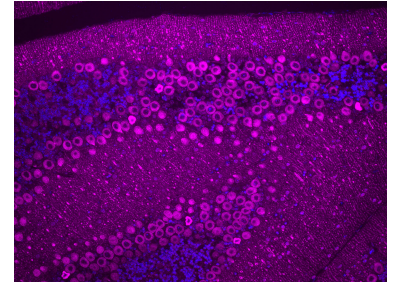
Selected Validation Data



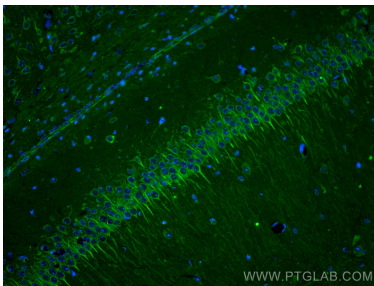
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 26968-1-AP (RyR1 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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 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 Goat Anti-Rabbit IgG(H+L).