

For Research Use Only

Calretinin Recombinant antibody

Catalog Number: 82811-1-RR



Basic Information

Catalog Number:

82811-1-RR

Size:

100ul, Concentration: 250 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2924

GenBank Accession Number:

BC015484

GeneID (NCBI):

794

UNIPROT ID:

P22676

Full Name:

calbindin 2

Calculated MW:

29 kDa

Observed MW:

29 kDa

Purification Method:

Protein A purification

CloneNo.:

2F20

Recommended Dilutions:

WB: 1:1000-1:5100

IHC: 1:50-1:500

IF/ICC: 1:125-1:500

FC (Intra): 0.25 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

Species Specificity:

human, mouse, rat, pig

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:

WB: SH-SY5Y cells, U2OS cells, fetal human brain tissue, mouse brain tissue, rat brain tissue, pig brain tissue

IHC: mouse brain tissue,

IF/ICC: SH-SY5Y cells,

FC (Intra): SH-SY5Y cells,

Background Information

Calbindin 2 (calretinin), is an intracellular calcium-binding protein belonging to the troponin C superfamily. Members of this protein family have six EF-hand domains which bind calcium. This protein plays a role in diverse cellular functions, including message targeting and intracellular calcium buffering. It also functions as a modulator of neuronal excitability, and is a diagnostic marker for some human diseases, including Hirschsprung disease and some cancers. Calretinin is a useful marker for differentiating malignant mesothelioma from carcinomas.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

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:

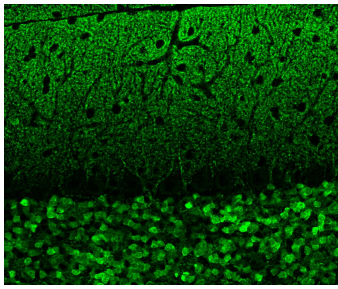
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: proteintech@ptglab.com

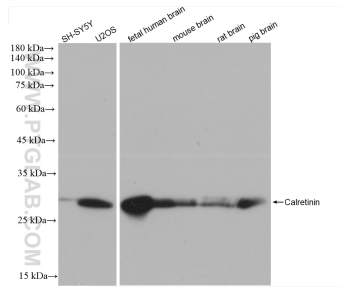
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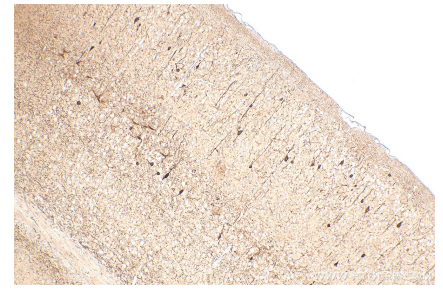
Selected Validation Data



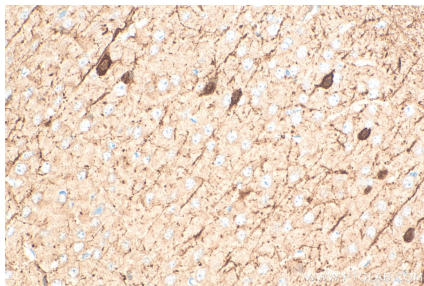
Immunofluorescent analysis of (4% PFA) fixed adult mouse cerebellum tissue using Calretinin antibody (82811-1-RR) at dilution of 1:500 and Alexa Fluor 594 AffiniPure Donkey Anti-Rabbit IgG (H+L). (Image produced by Watt Lab at McGill University)



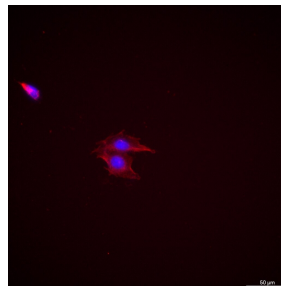
Various lysates were subjected to SDS PAGE followed by western blot with 82811-1-RR (Calretinin antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



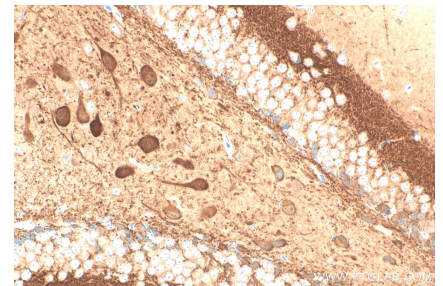
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 82811-1-RR (Calretinin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



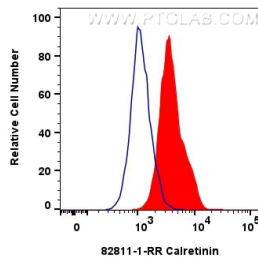
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 82811-1-RR (Calretinin antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using Calretinin antibody (82811-1-RR, Clone: 2F20) at dilution of 1:250 and Multi-rAb CoraLite® Plus 594-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR004).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 82811-1-RR (Calretinin antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10⁶ SH-SY5Y cells were intracellularly stained with 0.25 ug Calretinin Recombinant antibody (82811-1-RR, Clone:2F20) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).