

For Research Use Only

# Calretinin Recombinant antibody

Catalog Number:82811-1-RR



## Basic Information

<b>Catalog Number:</b> 82811-1-RR	<b>GenBank Accession Number:</b> BC015484	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 250 ug/ml	<b>GeneID (NCBI):</b> 794	<b>CloneNo.:</b> 2F20
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P22676	<b>Recommended Dilutions:</b> WB 1:1000-1:5100 IHC 1:50-1:500 IF/ICC 1:125-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> calbindin 2	
<b>Immunogen Catalog Number:</b> AG2924	<b>Calculated MW:</b> 29 kDa	
	<b>Observed MW:</b> 29 kDa	

## 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,

## 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 pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

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

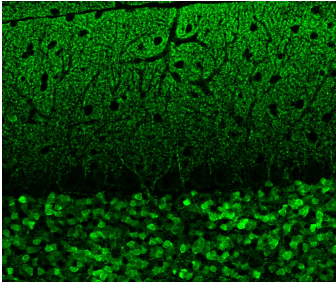
T: 4006900926

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

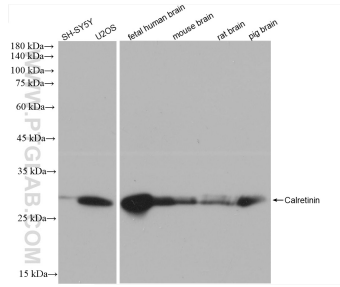
W: [ptgcn.com](http://ptgcn.com)

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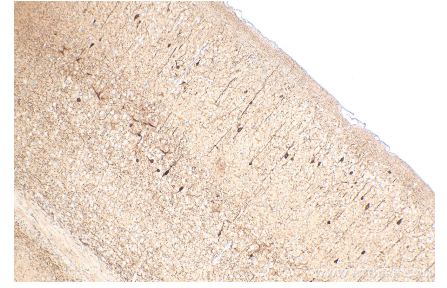
## Selected Validation Data



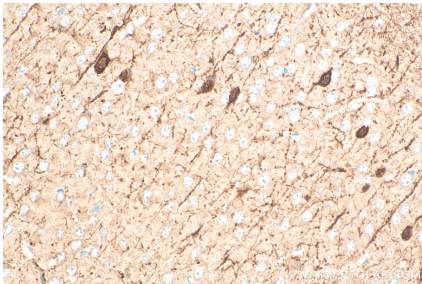
Immunofluorescent analysis of (4% PFA) fixed adult mouse cerebellum tissue using Calretinin antibody (82811-1-RR) at dilution of 1:500 and Alexa Fluor 594 AffiniPure Donkey Anti-Rabbit IgG (H+L). (Image produced by Watt Lab at McGill University)



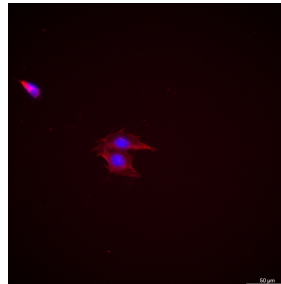
Various lysates were subjected to SDS PAGE followed by western blot with 82811-1-RR (Calretinin antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



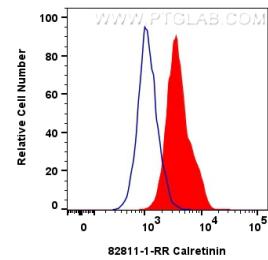
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 82811-1-RR (Calretinin antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



$1 \times 10^6$  SH-SY5Y cells were intracellularly stained with 0.25  $\mu$ g 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  $\mu$ g Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).