

For Research Use Only

# Calretinin Recombinant antibody

Catalog Number: 82811-1-RR



## Basic Information

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

## Applications

**Tested Applications:**  
WB, IF/ICC, IHC, 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:** 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:

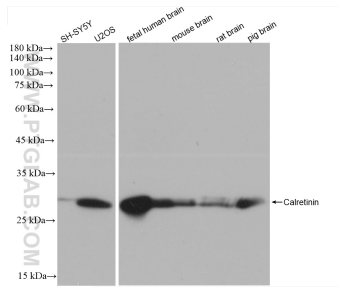
T: 4006900926

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

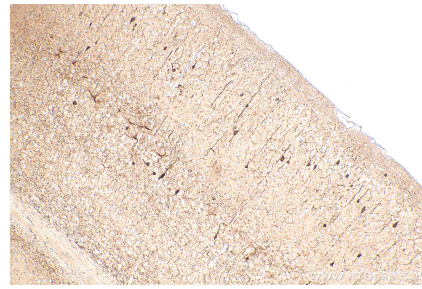
W: [ptgcn.com](http://ptgcn.com)

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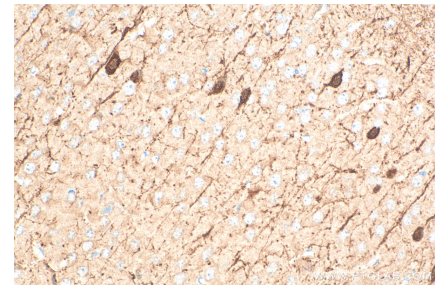
## Selected Validation Data



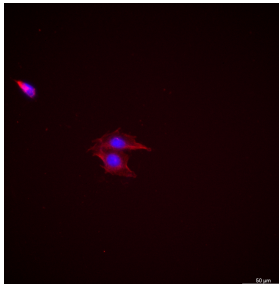
Various lysates were subjected to SDS PAGE followed by western blot with 82811-1-RR (Calretinin antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



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).