

For Research Use Only

# Calretinin Monoclonal antibody

Catalog Number: 66496-1-Ig **7 Publications**



## Basic Information

<b>Catalog Number:</b> 66496-1-Ig	<b>GenBank Accession Number:</b> BC015484	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1500 µg/ml by Nanodrop and 779 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 794	<b>CloneNo.:</b> 2D7A9
<b>Source:</b> Mouse	<b>Full Name:</b> calbindin 2	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:2000-1:8000 IF 1:200-1:800
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 29 kDa	
<b>Immunogen Catalog Number:</b> AG2924	<b>Observed MW:</b> 29 kDa	

## Applications

### Tested Applications:

IF, IHC, WB, ELISA

### Cited Applications:

IF, WB

### Species Specificity:

Human, mouse, pig, rat

### Cited Species:

human, mouse

**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** : pig brain tissue, mouse brain tissue, rat brain tissue, U2OS cells, rat cerebellum tissue, U-251 cells, mouse cerebellum tissue, rabbit brain tissue

**IHC** : human appendicitis tissue, human brain tissue, human cerebellum tissue, human colon tissue, rat brain tissue

**IF** : SH-SY5Y cells, human appendicitis tissue

## 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Tuancheng Feng	35287730	Acta Neuropathol Commun	WB,IF
Hiroki Sano	30692515	Cell Death Dis	IF
Charles R Lechner	33309937	Neurobiol Dis	WB,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

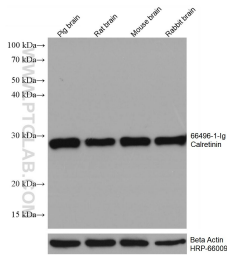
For technical support and original validation data for this product please contact:

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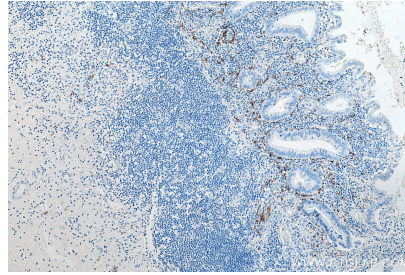
E: proteintech@ptglab.com  
W: ptglab.com

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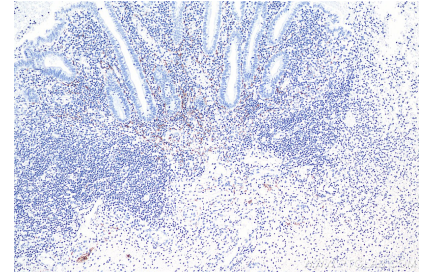
## Selected Validation Data



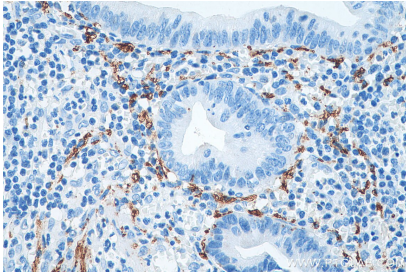
Various lysates were subjected to SDS PAGE followed by western blot with 66496-1-Ig (Calretinin antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



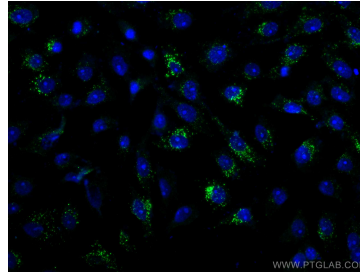
Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 66496-1-Ig (Calretinin antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



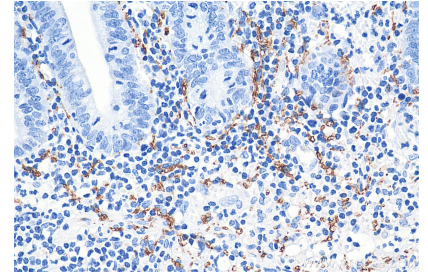
Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 66496-1-Ig (Calretinin antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 66496-1-Ig (Calretinin antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using Calretinin antibody (66496-1-Ig, Clone: 2D7A9) at dilution of 1:100 and Coralite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 66496-1-Ig (Calretinin antibody) at dilution of 1:4000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).