

Calretinin Monoclonal antibody

Catalog Number: 66496-1-Ig **8 Publications**

Basic Information

Catalog Number:

66496-1-Ig

Size:

1500 ug/ml

Source:

Mouse

Isotype:

IgG1

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 G purification

CloneNo.:

2D7A9

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:2000-1:8000

IF-P 1:200-1:800

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat, pig

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-P : human appendicitis 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.

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

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

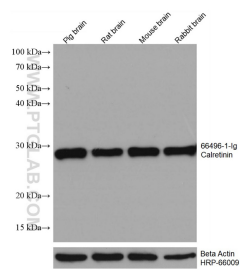
T: 4006900926

E: Proteintech-CN@ptglab.com

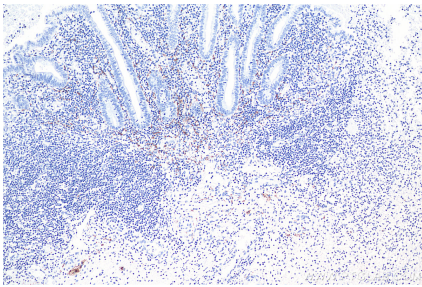
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

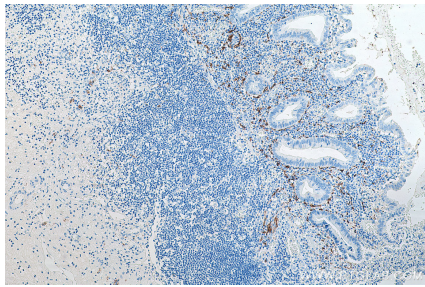
Selected Validation Data



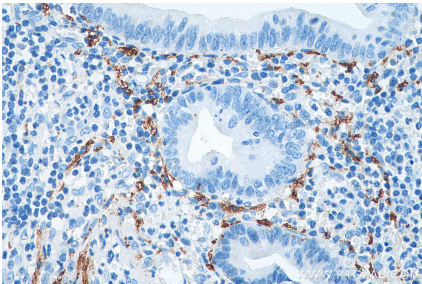
Various lysates were subjected to SDS PAGE followed by western blot with 66496-1-Ig (Calretinin antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



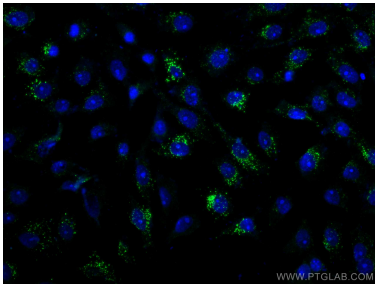
Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 66496-1-Ig (Calretinin antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



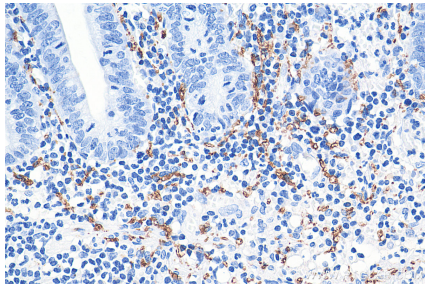
Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 66496-1-Ig (Calretinin antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



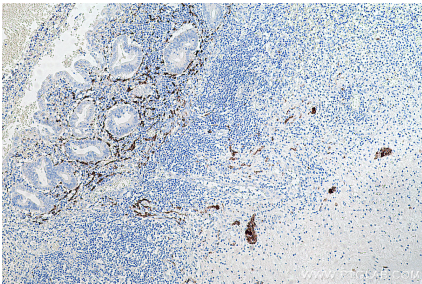
Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 66496-1-Ig (Calretinin antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



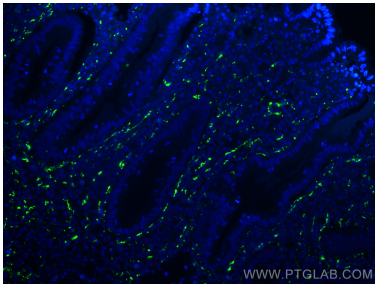
Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using Calretinin antibody (66496-1-Ig, Clone: 2D7A9) at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



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).



Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 66496-1-Ig (Calretinin antibody) at dilution of 1:16000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human appendicitis tissue using Calretinin antibody (66496-1-Ig, Clone: 2D7A9) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).