

Calretinin Monoclonal antibody

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

Basic Information

Catalog Number: 66496-1-Ig	GenBank Accession Number: BC015484	Purification Method: Protein G purification
Size: 150ul , Concentration: 1500 ug/ml by Nanodrop and 779 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 794	CloneNo.: 2D7A9
Source: Mouse	UNIPROT ID: P22676	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:2000-1:8000 IF-P 1:200-1:800 IF/ICC 1:200-1:800
Isotype: IgG1	Full Name: calbindin 2	
Immunogen Catalog Number: AG2924	Calculated MW: 29 kDa	
	Observed MW: 29 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, IF-P, ELISA	Positive Controls:
Cited Applications: WB, IF	WB : pig brain tissue, mouse brain tissue, rat brain tissue, U2OS cells, rat cerebellum tissue, U-251 cells, mouse cerebellum tissue, rabbit brain tissue
Species Specificity: human, mouse, rat, pig	IHC : human appendicitis tissue, human brain tissue, human cerebellum tissue, human colon tissue, rat brain tissue
Cited Species: human, mouse	IF-P : human appendicitis tissue,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	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

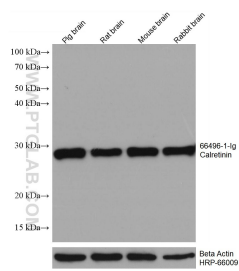
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

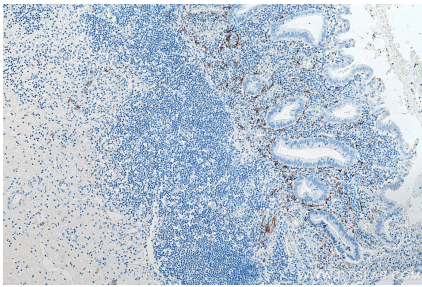
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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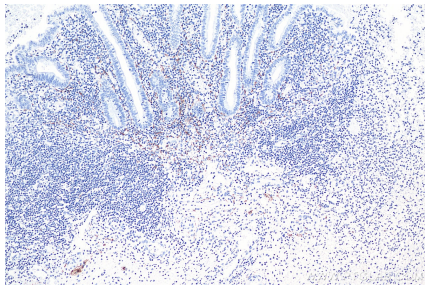
Selected Validation Data



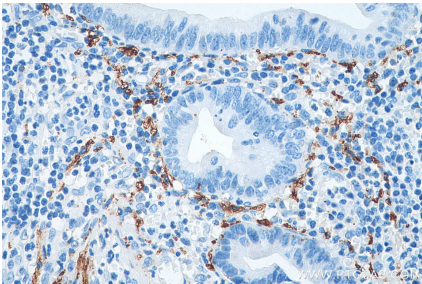
Various lysates were subjected to SDS PAGE followed by western blot with 66496-1-Ig (Calretinin antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Beta Actin Monoclonal antibody (HRP-66009) as loading control.



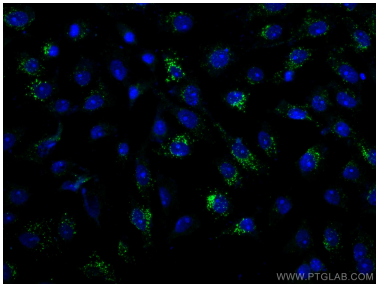
Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 66496-1-Ig (Calretinin antibody) at dilution of 1:5000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



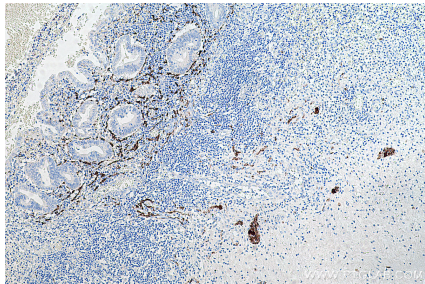
Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 66496-1-Ig (Calretinin antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



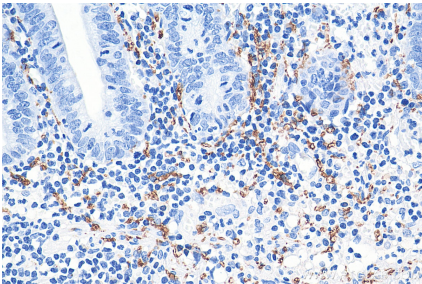
Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 66496-1-Ig (Calretinin antibody) at dilution of 1:5000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



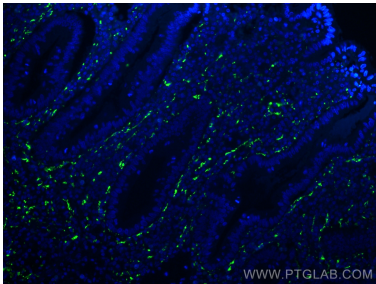
Immunofluorescent analysis of (-20°C Ethanol) fixed SH-SY5Y cells using Calretinin antibody (66496-1-Ig, Clone: 2D7A9) at dilution of 1:100 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 66496-1-Ig (Calretinin antibody) at dilution of 1:16000 (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 40x 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).