

For Research Use Only

Calretinin Polyclonal antibody

Catalog Number: 12278-1-AP **16 Publications**



Basic Information

Catalog Number: 12278-1-AP	GenBank Accession Number: BC015484	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 450 ug/ml by Nanodrop and 253 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 794	Recommended Dilutions: WB: 1:5000-1:50000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC: 1:500-1:2000
Source: Rabbit	UNIPROT ID: P22676	
Isotype: IgG	Full Name: calbindin 2	
Immunogen Catalog Number: AG2924	Calculated MW: 29 kDa	
	Observed MW: 29 kDa	

Applications

Tested Applications: WB, IHC, IP, ELISA	Positive Controls:
Cited Applications: WB, IHC, IF	WB: fetal human brain tissue, human ileum tissue, mouse brain tissue, mouse colon tissue, rat brain tissue, rat colon tissue
Species Specificity: human, mouse, rat	IP: mouse brain tissue,
Cited Species: human, mouse, rat	IHC: human appendicitis tissue, mouse brain tissue, human brain tissue, human cerebellum tissue
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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
Luca Pesce	34536443	Prog Biophys Mol Biol	IF
Zhihao Wang	32926169	Endocrinology	IHC
Yuki Kajita	34803625	Front Behav Neurosci	IF

Storage

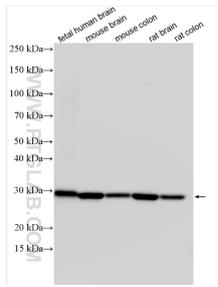
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

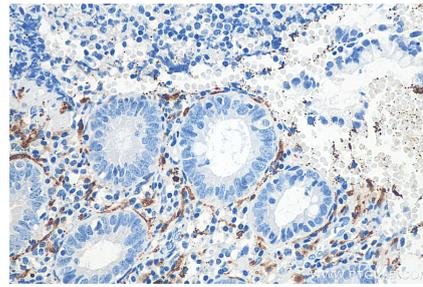
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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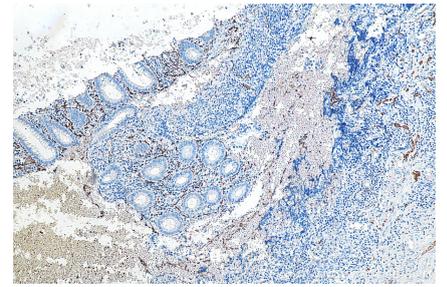
Selected Validation Data



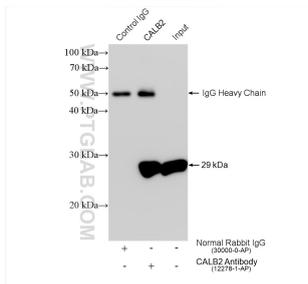
Various lysates were subjected to SDS PAGE followed by western blot with 12278-1-AP (Calretinin antibody) at dilution of 1:12000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 12278-1-AP (Calretinin antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human appendicitis tissue slide using 12278-1-AP (Calretinin antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-Calretinin (IP:12278-1-AP, 4ug; Detection:12278-1-AP 1:10000) with mouse brain tissue lysate 1280 ug.