

Calretinin Polyclonal antibody

Catalog Number: 12278-1-AP

16 Publications

Basic Information

Catalog Number:

12278-1-AP

Size:

150ul, Concentration: 850 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

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:

Antigen affinity purification

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

Applications

Tested Applications:

WB, IP, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

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: fetal human brain tissue, human ileum tissue, human brain tissue, human colon tissue, mouse brain tissue, mouse colon tissue, rat brain tissue, rat colon tissue

IP: mouse brain tissue,

IHC: human appendicitis tissue, mouse brain tissue, human brain tissue, human cerebellum 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 |
|-------------|-----------|-----------------------|-------------|
| 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

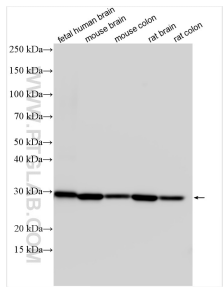
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

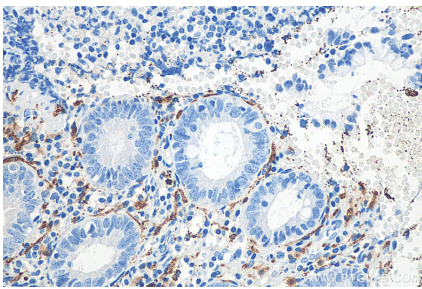
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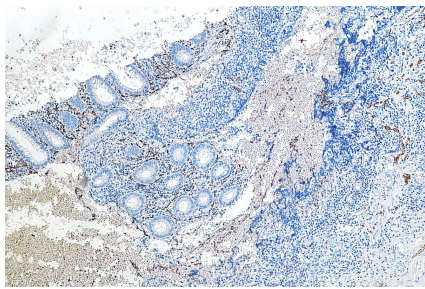
Selected Validation Data



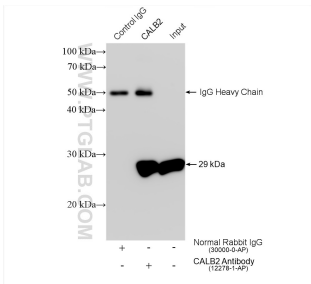
Various lysates were subjected to SDS PAGE followed by western blot with 12278-1-AP (Calretinin antibody) at dilution of 1:12000 incubated at room temperature for 1.5 hours.



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.