

For Research Use Only

Calbindin-D28k Monoclonal ANTIBODY



Catalog Number: 66394-1-Ig

Basic Information

Catalog Number:
66394-1-Ig

Size:
150 µg/150 µl

Source:
Mouse

Isotype:
IgG1

Purification Method:
Protein G purification

Immunogen Catalog Number:
AC5861

GenBank Accession Number:
BC006478

GeneID (NCBI):
793

Full Name:
calbindin 1, 28kDa

Calculated MW:
30 kDa

Observed MW:
28 kDa

Recommended Dilutions:

WB 1:5000-1:10000

IHC 1:50-1:500

IF 1:50-1:500

Applications

Tested Applications:

IF, IHC, WB, ELISA

Species Specificity:

human, mouse, rat

Note: 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 cerebellum tissue; PC-12 cells, fetal human brain tissue, mouse brain tissue, rat brain tissue, mouse cerebellum tissue, rat cerebellum tissue

IHC : human brain tissue; human kidney tissue, human small intestine tissue, mouse brain tissue

IF : mouse brain tissue; PC-12 cells

Background Information

Calbindin-D28k is a member of the calcium-binding protein superfamily that includes calmodulin and troponin C. It is a cytosolic calcium binding protein highly expressed in the distal tubule, intestines, central nervous system, primary murine osteoblast cells and in several other organs. It plays an important role in the intracellular calcium homeostasis, its strong buffering capacity prevents cytotoxic effect of high concentration of free calcium in kidney, brain, pancreas, and intestine.

Notable Publications

Author	Pubmed ID	Journal	Application
--------	-----------	---------	-------------

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

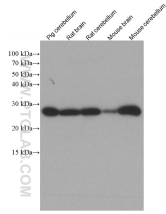
For technical support and original validation data for this product please contact:

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

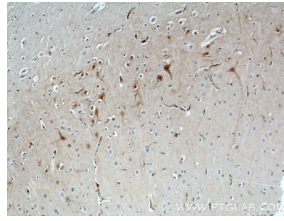
E: proteintech@ptglab.com
W: ptglab.com

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

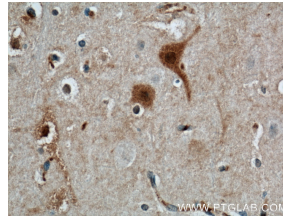
Selected Validation Data



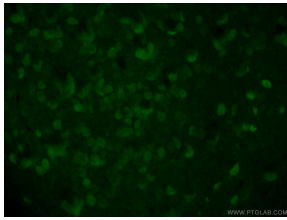
Various lysates were subjected to SDS PAGE followed by western blot with 66394-1-Ig (Calbindin-D28k antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours



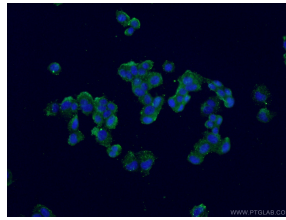
Immunohistochemistry of paraffin-embedded human brain tissue slide using 66394-1-Ig (Calbindin-D28k antibody) at dilution of 1:200 (under 10x lens), heat mediated antigen retrieved with Tris-EDTA buffer (pH9).



Immunohistochemistry of paraffin-embedded human brain tissue slide using 66394-1-Ig (Calbindin-D28k antibody) at dilution of 1:200 (under 40x lens), heat mediated antigen retrieved with Tris-EDTA buffer (pH9).



Immunofluorescent analysis of (4% PFA) fixed mouse brain tissue using 66394-1-Ig (Calbindin-D28k antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L)



Immunofluorescent analysis of (-20°C Ethanol) fixed PC-12 cells using 66394-1-Ig (Calbindin-D28k antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L)