For Research Use Only

Calbindin-D28k Recombinant monoclonal antibody

Catalog Number:88615-1-RR

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Basic Information

Catalog Number:
88615-1-RR

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG5861

GenBank Accession Number:
BC006478

GeneID (NCBI):
793

UNIPROT ID:
P05937

Full Name:
calbindin 1, 28kDa

Calculated MW:
30 kDa

Observed MW:
28 kDa

Purification Method:
Protein A purification

CloneNo.:
261340A1

Recommended Dilutions:
WB: 1:5000-1:50000
IHC: 1:500-1:2000
IF-P: 1:250-1:1000

Applications

Tested Applications:
WB, IHC, IF-P, ELISA

Species Specificity:
human, mouse, rat, pig

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 : mouse brain tissue, mouse cerebellum tissue, pig brain tissue, rat brain tissue, fetal human brain tissue

IHC : rat cerebellum tissue, mouse cerebellum tissue

IF-P : mouse cerebellum tissue,

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.

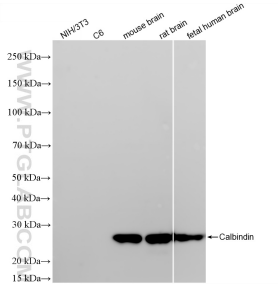
Storage

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

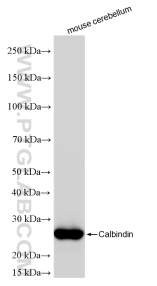
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

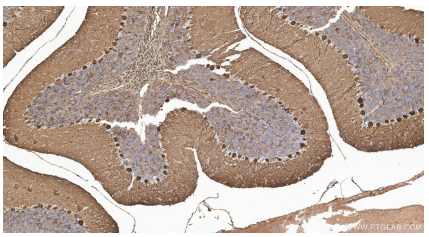
Selected Validation Data



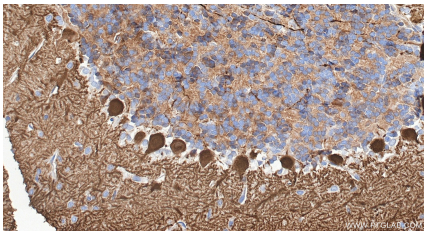
Various lysates were subjected to SDS PAGE followed by western blot with 88615-1-RR (Calbindin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



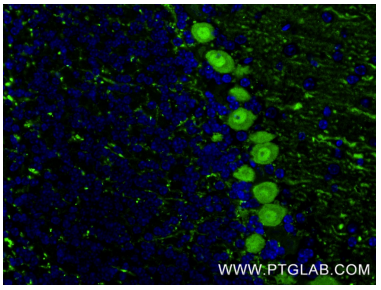
mouse cerebellum tissue were subjected to SDS PAGE followed by western blot with 88615-1-RR (Calbindin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



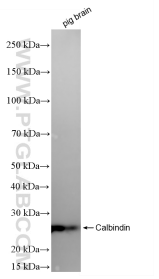
Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using 88615-1-RR (Calbindin-D28k antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



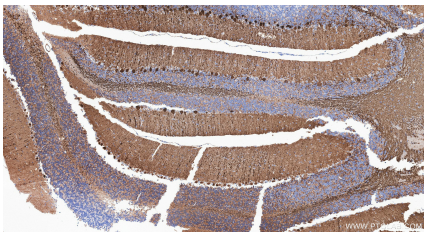
Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using 88615-1-RR (Calbindin-D28k antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



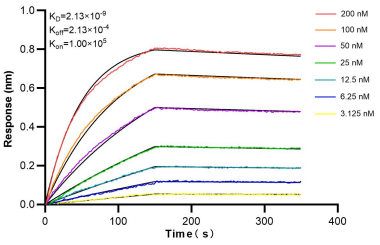
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse cerebellum tissue using Calbindin-D28k antibody (88615-1-RR, Clone: 261340A1) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



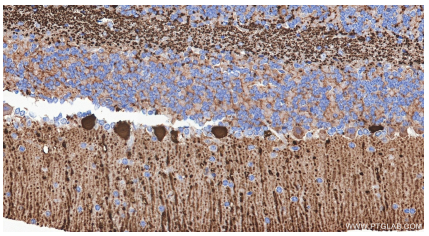
pig brain tissue were subjected to SDS PAGE followed by western blot with 88615-1-RR (Calbindin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 88615-1-RR (Calbindin-D28k antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 88615-1-RR against Human Calbindin-D28k were performed. The affinity constant is 2.13 nM.



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 88615-1-RR (Calbindin-D28k antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).