For Research Use Only

Calbindin-D28k Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number:88615-1-PBS

proteintech®
Antibodies | ELISA kits | Proteins
www.ptglab.com

Basic Information

Catalog Number:
88615-1-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

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

Applications

Tested Applications:
WB, IHC, IF-P, Cytometric bead array, Indirect ELISA

Species Specificity:
human, mouse, rat, pig

Product Information

88615-1-PBS targets Calbindin-D28k as part of a matched antibody pair:

MP03605-1: 88615-2-PBS capture and 88615-1-PBS detection (validated in Cytometric bead array)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications.Antibody use should be optimized by the end user for each application and assay.

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.

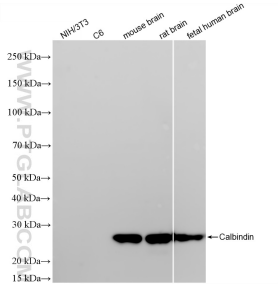
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS only, pH7.3

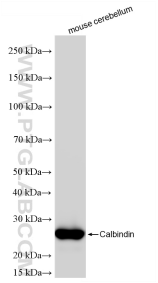
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

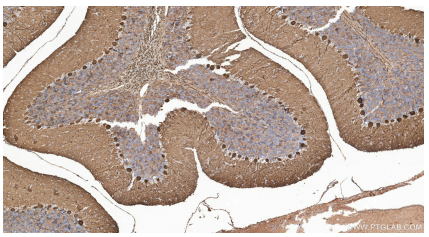
Selected Validation Data



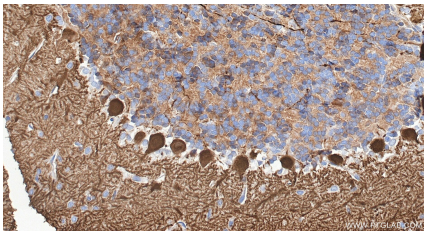
Various lysates were subjected to SDS PAGE followed by western blot with 88615-1-RR (Calbindin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 88615-1-PBS in a different storage buffer formulation.



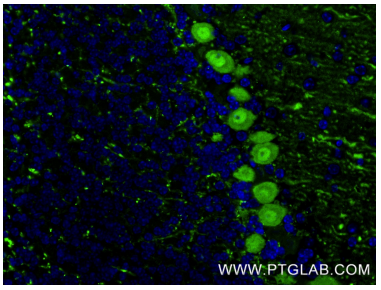
mouse cerebellum tissue were subjected to SDS PAGE followed by western blot with 88615-1-RR (Calbindin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 88615-1-PBS in a different storage buffer formulation.



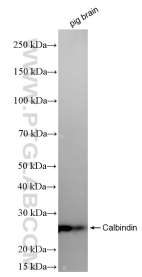
Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using 88615-1-RR (Calbindin-D28k antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 88615-1-PBS in a different storage buffer formulation.



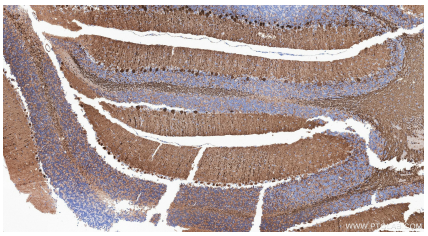
Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue slide using 88615-1-RR (Calbindin-D28k antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 88615-1-PBS in a different storage buffer formulation.



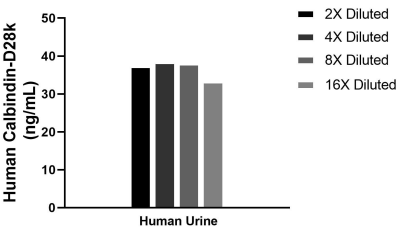
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse cerebellum tissue using Calbindin-D28k antibody (88615-1-RR, Clone: 261340A1) at dilution of 1:500 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This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



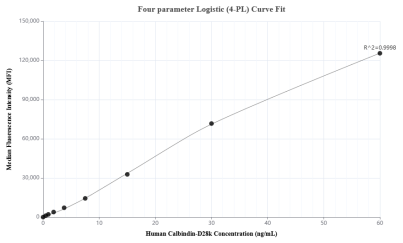
pig brain tissue were subjected to SDS PAGE followed by western blot with 88615-1-RR (Calbindin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 88615-1-PBS in a different storage buffer formulation.



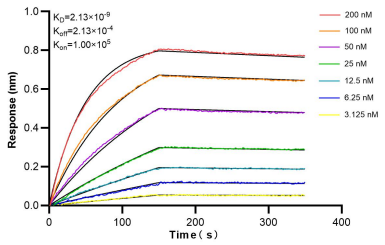
Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 88615-1-RR (Calbindin-D28k antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 88615-1-PBS in a different storage buffer formulation.

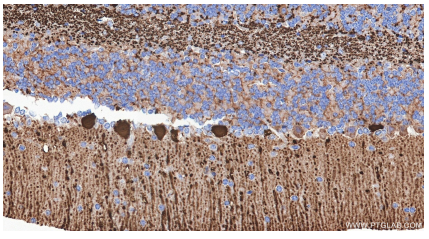


The mean Calbindin-D28k concentration was determined to be 36.7 ng/mL in human urine .



Cytometric bead array standard curve of MP03605-1, Calbindin-D28k Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 88615-2-PBS. Detection antibody: 88615-1-PBS. Standard: Ag5861. Range: 0.469-60 ng/mL.





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). This data was developed using the same antibody clone with 88615-1-PBS in a different storage buffer formulation.