


Product datasheet

Anti-Calbindin antibody ab25085

★★★★★ [6 Abreviews](#) [23 References](#) [5 Images](#)

Overview

Product name	Anti-Calbindin antibody
Description	Rabbit polyclonal to Calbindin
Host species	Rabbit
Tested applications	Suitable for: IP, WB, IHC-P, IHC-Fr, ICC/IF
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Rabbit, Horse, Chicken, Hamster, Cow 
Immunogen	Synthetic peptide within Human Calbindin aa 150-250. The exact sequence is proprietary. Database link: P05937
Positive control	Recombinant Human Calbindin protein (ab117207) can be used as a positive control in WB. Rat brain

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.6 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab25085 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

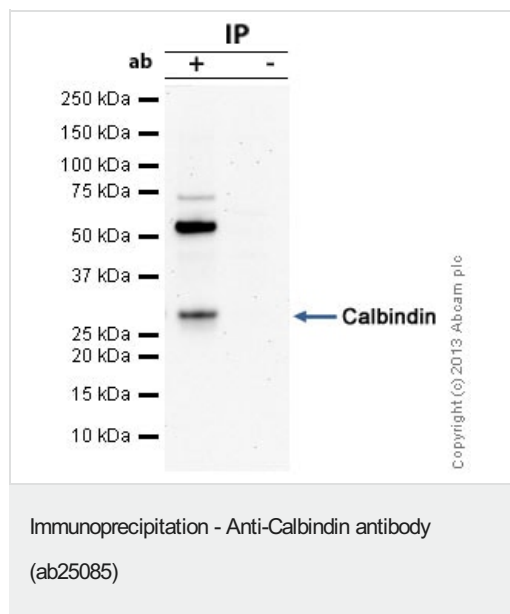
Application	Abreviews	Notes
IP		Use a concentration of 5 µg/ml.

Application	Abreviews	Notes
WB	★★★★★ (2)	Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 28 kDa.
IHC-P	★★★★★ (2)	1/400. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
IHC-Fr	★★★★★ (1)	Use at an assay dependent concentration.
ICC/IF	★★★★★ (1)	Use a concentration of 1 - 5 µg/ml.

Target

Function	Buffers cytosolic calcium. May stimulate a membrane Ca(2+)-ATPase and a 3',5'-cyclic nucleotide phosphodiesterase.
Sequence similarities	Belongs to the calbindin family. Contains 5 EF-hand domains.
Domain	This protein has four functional calcium-binding sites; potential sites II and VI have lost affinity for calcium.

Images



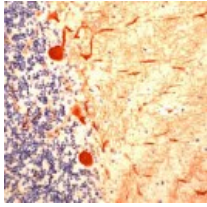
Calbindin was immunoprecipitated using 0.5mg Rat Brain tissue extract, 5µg of Rabbit polyclonal to Calbindin and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).

The antibody was incubated under agitation with Protein G beads for 10min, Rat Brain tissue extract lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.

Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70°C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab25085.

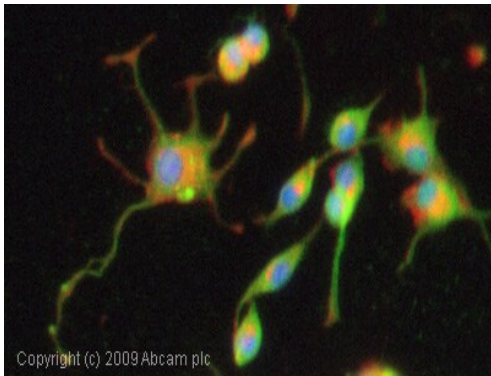
Secondary: Mouse monoclonal [SB62a] Secondary Antibody to Rabbit IgG light chain (HRP) ([ab99697](#)).<

Band: 28kDa; Calbindin



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calbindin antibody (ab25085)

ab25085 staining human Calbindin D28 in Human cerebellum by immunohistochemistry formalin fixed, paraffin embedded.



Immunocytochemistry/ Immunofluorescence - Anti-Calbindin antibody (ab25085)

ICC/IF image of ab25085 stained PC12 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab25085, 1ug/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43uM.



Western blot - Anti-Calbindin antibody (ab25085)

Anti-Calbindin antibody (ab25085) at 1 µg/ml + Brain (Rat) Tissue Lysate at 10 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

Developed using the ECL technique.

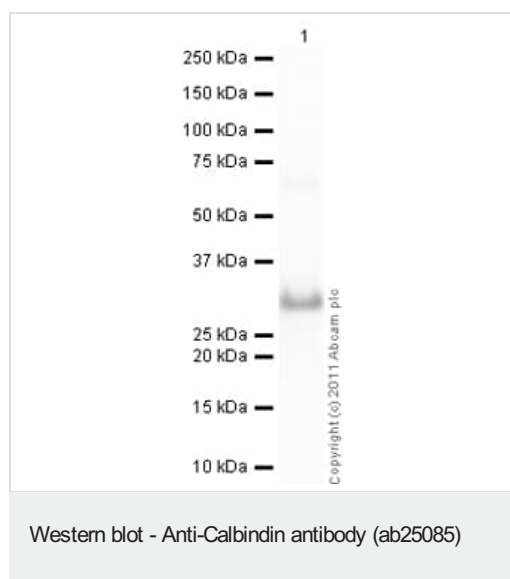
Performed under reducing conditions.

Predicted band size: 28 kDa

Observed band size: 30 kDa

Additional bands at: 67 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 4 minutes



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