Product datasheet

Anti-Calbindin antibody ab25085

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
Immunogen: Synthetic peptide within Human Calbindin aa 150-250. The exact sequence is proprietary.
Database link: P05937
Positive control: 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: 7.40
Preservative: 0.1% Sodium azide
Constituents: 0.0268% PBS, 1% BSA
Purity: Protein G purified
Clonality: Polyclonal
Isotype: IgG

Applications

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.

<table>
<thead>
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<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>IP</td>
<td></td>
<td>Use a concentration of 5 µg/ml.</td>
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<tr>
<td>WB</td>
<td>★★★★☆</td>
<td>Use a concentration of 1 - 2 µg/ml. Predicted molecular weight: 28 kDa.</td>
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</table>
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.


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 +4øC. 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 1.43μM.
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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