abcam

Product datasheet

Anti-Calbindin antibody [EPR22698-236] - BSA and Azide free ab255691

Recombinant RabMAb

7 Images

Overview

Product name	Anti-Calbindin antibody [EPR22698-236] - BSA and Azide free
Description	Rabbit monoclonal [EPR22698-236] to Calbindin - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, IHC-Fr, IP **Unsuitable for:** Flow Cyt or ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	IP: Rat brain lysate; mouse brain lysate. IHC-P: Rat cerebellum tissue; mouse cerebellum tissue. IHC-Fr: Rat cerebellum tissue; mouse cerebellum tissue.
General notes	ab255691 is the carrier-free version of **ab229915**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22698-236
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab255691 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

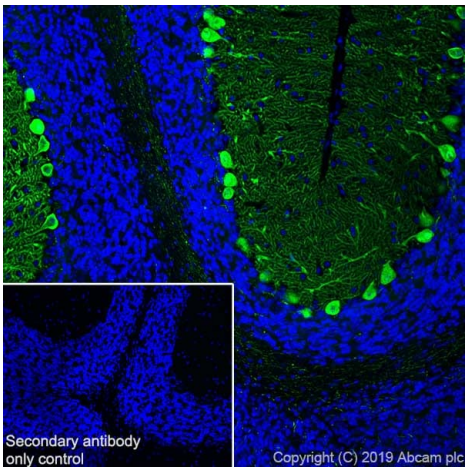
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 30 kDa (predicted molecular weight: 30 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
IHC-Fr		Use at an assay dependent concentration. Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).
IP		Use at an assay dependent concentration.

Application notes Is unsuitable for Flow Cyt or ICC/IF.

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



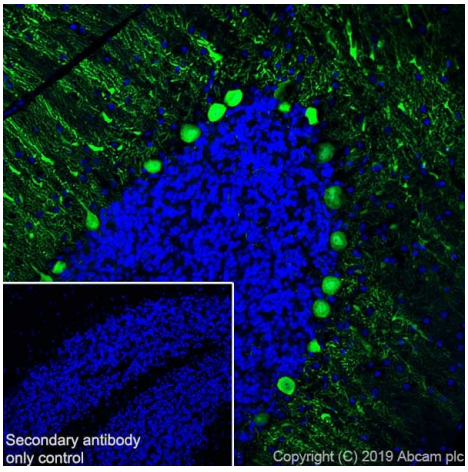
Immunohistochemistry (Frozen sections) - Anti-Calbindin antibody [EPR22698-236] - BSA and Azide free (ab255691)

Immunohistochemical analysis of frozen section of 4% PFA-fixed, 0.2% Triton X-100 permeabilized mouse cerebellum tissue labeling Calbindin with **ab229915** at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) at 1/1000 dilution (green). Positive staining on molecular layer and purkinje cells of mouse cerebellum (PMID: 20130198) is observed. The nuclear counter stain is DAPI (blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) at 1/1000 dilution.

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab229915**).



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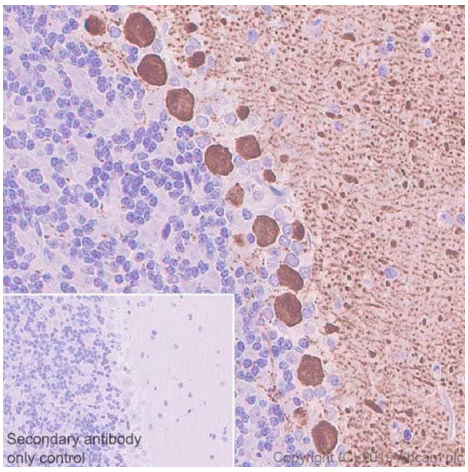


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Calbindin antibody [EPR22698-236] - BSA and Azide free (ab255691)

Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue labeling Calbindin with **ab229915** at 1/4000 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Positive staining on Purkinje cells of rat cerebellum (PMID: 17507571) is observed. Counter stained with hematoxylin.

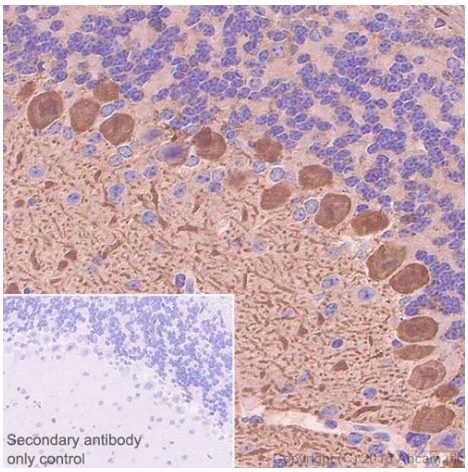
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**).

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution 2) for 20mins.

The section was incubated with **ab229915** for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab229915**).



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Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue labeling Calbindin with **ab229915** at 1/4000 dilution, followed by Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). Strong positive staining on Purkinje cells of mouse cerebellum (PMID: 17507571) is observed. Counter stained with hematoxylin.

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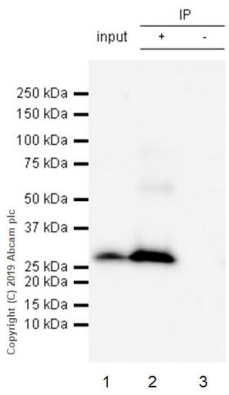


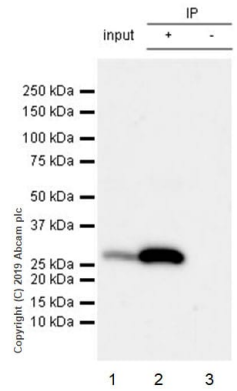
Immunoprecipitation - Anti-Calbindin antibody [EPR22698-236] - BSA and Azide free (ab255691)

Calbindin was immunoprecipitated from 0.35 mg of mouse brain lysate with **ab229915** at 1/30 dilution. Western blot was performed from the immunoprecipitate using **ab229915** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used as the secondary antibody at 1/5000 dilution.

Lane 1: Mouse brain lysate 10 µg (Input).
Lane 2: **ab229915** IP in mouse brain lysate.
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab229915** in mouse brain lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.
Exposure time: 5 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab229915**).



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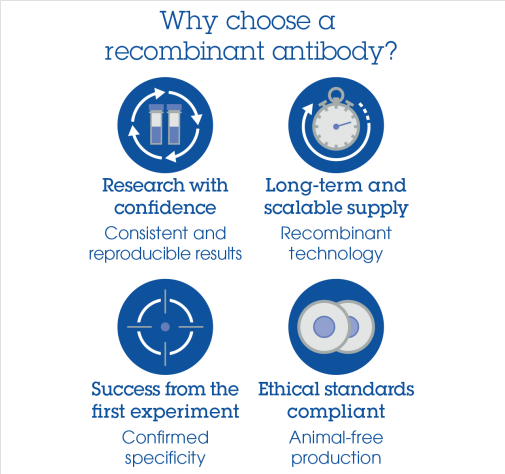

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