

Datasheet for ABIN2855596

anti-Calretinin antibody[Go to Product page](#)**1** Validation**6** Images**1** Publication

Overview

Quantity:	100 µL
Target:	Calretinin (CALB2)
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Calretinin antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human Calretinin. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Rabbit Polyclonal antibody to Calretinin (calbindin 2) Calretinin antibody
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	Calretinin (CALB2)
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Target Details

Alternative Name:	calbindin 2 (CALB2 Products)
Background:	<p>This gene encodes an intracellular calcium-binding protein belonging to the troponin C superfamily. Members of this protein family have six EF-hand domains which bind calcium.</p> <p>Three alternatively spliced transcript variants that encode different proteins have been described.</p>
Molecular Weight:	32 kDa
Gene ID:	794
UniProt:	P22676

Application Details

Application Notes:	WB: 1:500-1:10000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. IHC-Fr: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	<p>Positive Control: A431 , Mouse brain , human CALB2-transfected 293T cells , rat brain</p> <p>Validation: Overexpression</p>
Restrictions:	For Research Use only

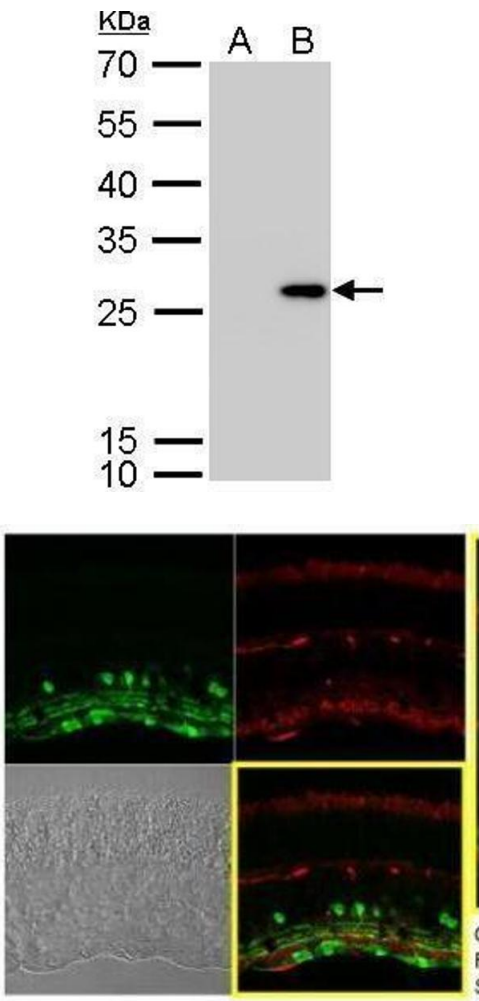
Handling

Format:	Liquid
Concentration:	0.75 mg/mL
Buffer:	0.1M Tris-Glycine (pH 7), 10 % Glycerol, 0.01 % Thimerosal
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

Product cited in: Pfeifer, Thurner, Kessel, Fadle, Kheiroddin, Regitz, Hoffmann, Kos, Preuss, Fischer, Roemer, Lohse, Heyne, Detemple, Fedlmeier, Juenger, Sauer, Meyer, Rohrer, Wittkowski, Becker, Masjosthusmann, Bals et al.: "Autoantibodies against interleukin-1 receptor antagonist in multisystem inflammatory syndrome in children: a multicentre, retrospective, cohort study. ..." in: **The Lancet. Rheumatology**, Vol. 4, Issue 5, pp. e329-e337, (2022) ([PubMed](#)).

Images

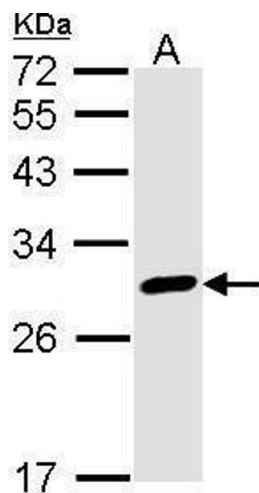


Western Blotting

Image 1. WB Image Calretinin antibody detects CALB2 protein by Western blot analysis. A. 30 ug 293T whole cell lysate/extract B. 30 ug whole cell lysate/extract of human CALB2-transfected 293T cells 12 % SDS-PAGE Calretinin antibody , dilution: 1:5000

Immunohistochemistry

Image 2. IHC-P Image Immunohistochemical analysis of paraffin-embedded Mouse retina, using Calretinin, antibody at 1:250 dilution.



Western Blotting

Image 3. WB Image Sample (30 ug of whole cell lysate) A:
A431 , 12% SDS PAGE Calretinin antibody antibody diluted
at 1:1000

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN2855596.



Successfully validated (Immunohistochemistry (IHC))

by [Prof. Merighi, Laboratory of Neurobiology, Department of Veterinary Sciences, University of Turin](#)

Report Number: 103867

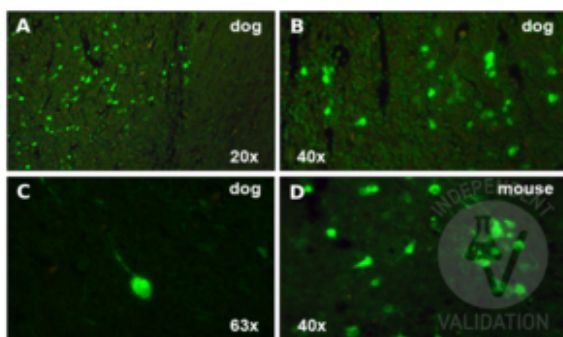
Date: May 29 2019

Target:	Calretinin
Lot Number:	39876
Method validated:	Immunohistochemistry (IHC)
Positive Control:	Adult (24 months) mouse and dog brain
Negative Control:	We incubated slices overnight with the blocking solution only and then processed them with the secondary antibody.
Notes:	ABIN2855596 works in IHC-P with microwave antigen retrieval pretreatment at an optimal concentration of 1:200.
Primary Antibody:	ABIN2855596
Secondary Antibody:	goat anti-rabbit AF488-conjugated antibody (Invitrogen by Thermo Fisher Scientific, A11034, lot 1971418)
Protocol:	<ul style="list-style-type: none"> • Obtain dog samples after autopsy and immersion-fix in buffered formaldehyde for 16h. • Perfuse mice with paraformaldehyde 4% in 0.1M phosphate buffer pH 7.4 and post-fix in the same fixative for an additional 2h at RT. • Wash, dehydrate, and embed samples in paraffin wax. • Cut with a microtome into 6µm sections and mount on glass slides. • After paraffin removal, process sections by microwave antigen retrieval for 10min (95-100°C) in 10mM sodium citrate buffer (pH 6.0). • Let sections cool for 10min. • Wash sections under running water for 5-10min. • Wash sections 2x 5min with distilled water. • Wash sections 5min with 0.01M PBS. • Incubate sections in PBS containing 1% albumin from chicken egg white (Sigma, A5378) for 1h at RT to block non-specific binding sites. • Incubate sections with primary rabbit anti-Calretinin antibody (antibodies-online, ABIN2855596, lot 39876) diluted 1:200 in PBS-BSA-PLL at 4°C. • Wash sections 3x 5min with 0.01M PBS. • Incubate sections with secondary goat anti-rabbit AF488-conjugated antibody (Invitrogen by Thermo Fisher Scientific, A11034, lot 1971418) diluted 1:500 in 0.1M PBS for 1h at RT.

- Wash sections 3x 5min with 0.01M PBS.
- Mount specimens in Fluoroshield (Sigma, F6182, lot MKCB0153V).
- Acquire images with a fluorescence microscope and appropriate filter settings for AF488, e.g. Leica DM 6000B fluorescence microscope equipped with the manufacturer's FITC filter set and digital camera at magnifications of 20x, 40x, and 63x. Parameters for image acquisition (Exposure 2.2s, Gain 2.3x, Saturation 1.5, Gamma 1.10) unchanged for all images.

Experimental Notes: For the incubation with the primary antibody ABIN2669973 1:100, 1:500, and 1:1000 dilutions were also tested.

Image for Validation report #103867



Validation image no. 1 for anti-Calbindin 2 (CALB2) antibody (ABIN2855596)

Staining of dog and mouse brain sections using ABIN2855596. A-C: Specific staining of calretinin-immunoreactive cortical neurons in dog brain sections at 20x, 40x, and 63x magnification. D. Staining of calretinin-immunoreactive cortical neurons in mouse brain sections at 40x magnification.