

Datasheet for 200-301-P22**Calbindin-D Antibody****Overview**

Description:	Anti-Calbindin-D (MOUSE) Antibody - 200-301-P22
Item No.:	200-301-P22
Size:	100 µg
Applications:	IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	The human calbindin D28k (CALB1) is a calcium-binding protein belonging to the troponin C superfamily. It was originally described as a 27-kD protein induced by vitamin D in the duodenum of the chick. Parmentier et al. (1991) mapped the CALB1 gene to 8q21.3-q22.1 by in situ hybridization. This antibody is suitable for researchers interested in transcription factors, nuclear receptors, cancer research, and nutritional and metabolic diseases.
Synonyms:	CALB, D-28K, CALBINDIN, 28-KD, Calbindin D28, Vitamin D-dependent calcium-binding protein, avian-type
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	CB-955
Format:	IgG1

Target Details

Gene Name:	CALB1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Recombinant Protein
Immunogen:	Calbindin-D antibody was produced in mice by repeated immunizations with a recombinant protein corresponding to bovine kidney calbindin-D.

Purity/Specificity: Anti-Calbindin-D antibody was purified from mouse ascites by protein A chromatography. This product reacts with human, mouse, bovine, and rat. Cross reactivity with Calbindin-D from other sources has not been determined.

Relevant Links:

- [UniProtKB - P05937](#)
- [GeneID - 793](#)
- [NCBI - NP_004920.1](#)

Application Details

Tested Applications: IF, IHC, WB

Application Note: Anti-Calbindin-D is tested for Immunofluorescence, Immunohistochemistry -P and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~30 kDa corresponding to the appropriate cell lysate or extract.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000

IHC: 1:100-1:500

IP: 1µg/mL

WB: 0.5-1ug/ml

Formulation

Physical State: Lyophilized

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

Buffer: 1.2% sodium acetate

Preservative: 0.01% (w/v) Sodium Azide

Stabilizer: 2mg BSA

Reconstitution Volume: 1.0 mL

Reconstitution Buffer: Neutral PBS

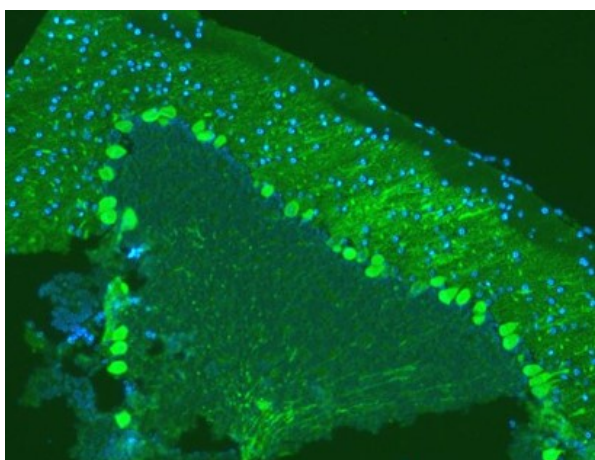
Shipping & Handling

Shipping Condition: Ambient

Storage Condition: Store vial at 4° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

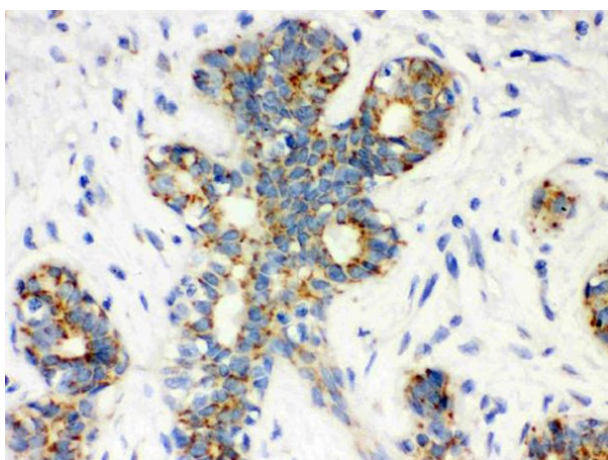
Expiration: Expiration date is one (1) year from date of receipt.

Images



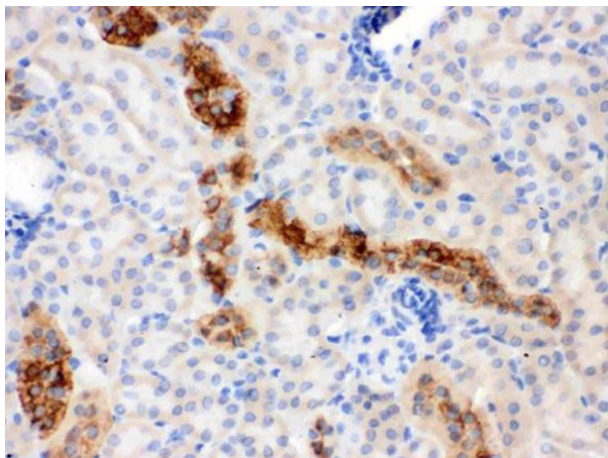
Immunofluorescence Microscopy

Immunofluorescence analysis of Calbindin-D using anti-Calbindin-D antibody. Calbindin-D was detected in paraffin-embedded section of mouse brain tissues. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1µg/mL mouse anti-Calbindin-D Antibody overnight at 4°C. DyLight®488 Conjugated Goat Anti-Mouse IgG secondary antibody at 1:100 dilution for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

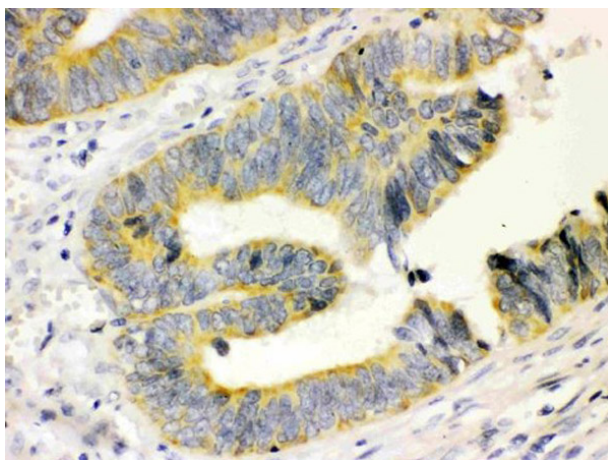


Immunohistochemistry

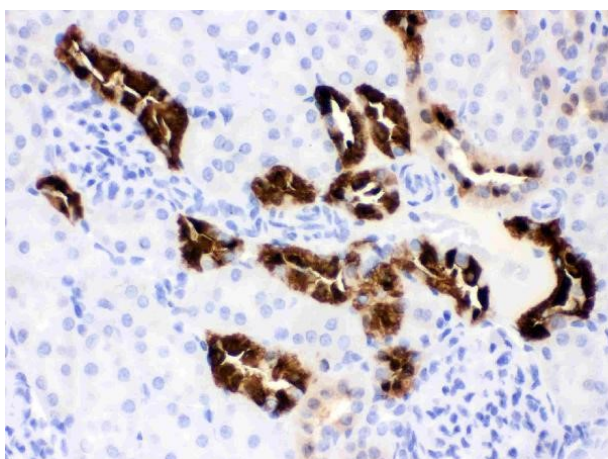
Immunohistochemistry of Mouse Anti-Calbindin-D antibody. Tissue: Human Mammary Cancer Tissue. IHC(P).

**Immunohistochemistry**

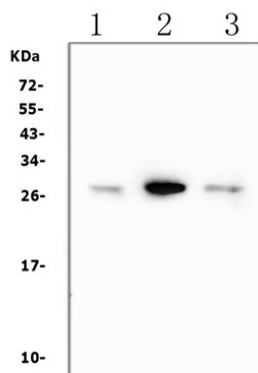
Immunohistochemistry of Mouse Anti-Calbindin-D antibody.
Tissue: Mouse Kidney Tissue. IHC (P).

**Immunohistochemistry**

Immunohistochemistry of Mouse Anti-Calbindin-D antibody.
Tissue: Human Intestinal Cancer Tissue. IHC (P).

**Immunohistochemistry**

Immunohistochemistry of Mouse Anti-Calbindin-D antibody.
Tissue: Rat Kidney Tissue. IHC (P).



Western Blot

Western blot analysis of Calbindin-D using anti-Calbindin-D antibody.

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50µg of sample under reducing conditions.

Lane 1: rat brain tissue lysates, Lane 2: rat kidney tissue lysates, Lane 3: mouse brain tissue lysates.

After Electrophoresis, proteins were transferred to a nitrocellulose membrane at 150mA for 50-90 minutes.

Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with affinity purified monoclonal mouse anti-Calbindin-D antigen primary antibody at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at 1:10,000 for 1.5 hour at RT.

The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Calbindin-D at approximately 28KD. The expected band size for Calbindin-D is at 28KD.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.