

Datasheet for 200-301-F06

CAV BETA 2 Antibody**Overview**

Description:	Anti-CAV beta 2 (MOUSE) Monoclonal Antibody - 200-301-F06
Item No.:	200-301-F06
Size:	100 µg
Applications:	IF, IHC, IP, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	Cav Beta subunits are involved in the transport of the pore forming alpha1 subunit to the plasma membrane. They also shield an ER Retention signal on the alpha1 subunit, thereby guiding the pore-forming subunit to the target membrane. They also determine the biophysical properties of the calcium channel.
Synonyms:	Cacnb2, cacnb2, Voltage-dependent L-type calcium channel subunit beta-2, CAB2
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	N8b/1
Format:	IgG1

Target Details

Gene Name:	Cacnb2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Cav beta 2 Antibody was produced in mice by repeated immunizations with a synthetic peptide corresponding to an internal region of rat CavBeta2.

Purity/Specificity: Anti-Cav Beta2 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Cav Beta2 from human, mouse, and rat based on 100% homology with the immunizing sequence. No cross reactivity against Cav β 1, Cav β 3, Cav β 4. Cross-reactivity with Cav Beta2 from other sources has not been determined. Ion Channels research.

Relevant Links:

- [NCBI - NP_446303](#)
- [GeneID - 116600](#)
- [UniProtKB - Q8VGC3](#)

Application Details

Tested Applications: IF, IHC, IP, WB

Application Note: Anti-CAV BETA2 Antibody has been tested in WB, IF, IHC and IP. Expect a band approximately ~78kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.

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

IF: 1.0-10ug/mL

IHC: 0.1-1.0ug/mL

IP: User Optimized

WB: 1-10ug/mL

Formulation

Physical State: Liquid (sterile filtered)

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

Buffer: 1X PBS, pH 7.4

Preservative: 0.09% (w/v) Sodium Azide

Stabilizer: 50% (v/v) Glycerol

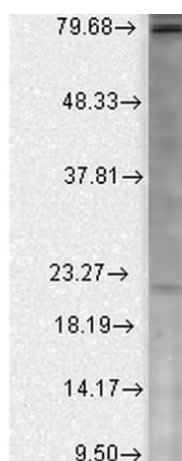
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° 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



Western Blot

Western Blot of Anti-Cav Beta 2 Antibody. Lane 1: Human Cell line lysates. Load: 15 µg protein. Primary Antibody: Anti-Cav Beta2 at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG HRP for 1 hour at RT. Block: 1.5% BSA for 30 minutes at RT. Predicted MW: ~78kDa. Observed MW: ~79kDa.

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.