

Datasheet for 200-301-F11**CAV3.2 Antibody****Overview**

Description:	Anti-CAV3.2 (MOUSE) Monoclonal Antibody - 200-301-F11
Item No.:	200-301-F11
Size:	100 µg
Applications:	IF, IHC, IP, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	Specifically, Cav3.2 is a protein which in humans is encoded by the CACNA1H gene. Studies suggest certain mutations in this gene lead to childhood absence epilepsy. Studies also suggest that the up-regulations of Cav3.2 may participate in the progression of prostate cancer toward an androgen-independent stage.
Synonyms:	CACNA1HB, Alpha1 3.2, CACNA 1H, CACNA1 HB, Cav T.2, EIG6, Voltage dependent T type calcium channel alpha 1H, Low-voltage-activated calcium channel alpha1 3.2 subunit, Voltage-gated calcium channel subunit alpha Cav3.2
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	N55/10
Format:	IgG1

Target Details

Gene Name:	CACNA1H
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Recombinant Protein
Immunogen:	Cav3.2 Antibody was produced in mice by repeated immunizations with a fusion protein corresponding to an internal region (II-III loop) of human Cav3.2.

Purity/Specificity: Anti-CAV3.2 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with CAV3.2 from Human, Rat, and Mouse based on 100% homology with the immunizing sequence. No cross-reactivity against Cav1.3. Cross-reactivity with CAV3.2 from other sources has not been determined. Channels and Transporters research.

Relevant Links:

- [NCBI - NP_001005407.1](#)
- [GeneID - 8912](#)
- [UniProtKB - O95180](#)

Application Details

Tested Applications: IF, IHC, IP, WB

Application Note: Anti-CAV3.2 Antibody is tested by WB, IP, IHC, and IF microscopy. Expect a band approximately ~260kDa 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

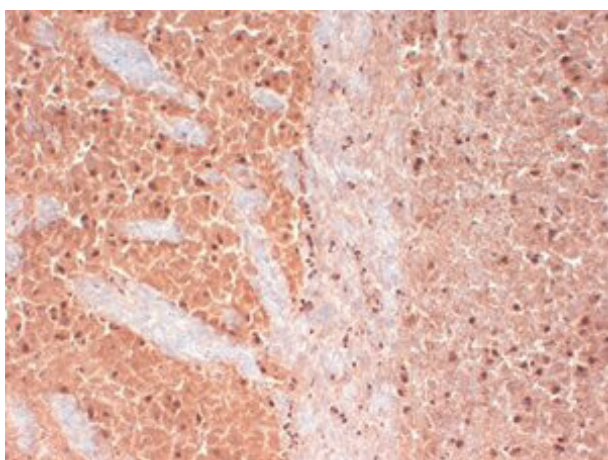
Stabilizer: 50% (v/v) Glycerol

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



Immunohistochemistry

Immunohistochemistry of Mouse anti-Cav3.2 antibody.
Tissue: mouse brain extract. Fixation: Frozen. Primary
Antibody: anti-Cav 3.2 antibody at 1ug/ml for 1h at RT.
Secondary antibody: Peroxidase mouse secondary at
1:10,000 for 45 min at RT. Localization: Membrane.
Staining: Cav 3.2 as precipitated brown signal.

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.