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Datasheet for ABIN2482861

## anti-CACNA1H antibody (AA 1019-1293) (HRP)

### 3 Images

#### Overview

Quantity:	100 µg
Target:	CACNA1H
Binding Specificity:	AA 1019-1293
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CACNA1H antibody is conjugated to HRP
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF), Immunocytochemistry (ICC), Antibody Array (AA)

#### Product Details

Immunogen:	Fusion protein amino acids 1019-1293 (II-III loop) of human Cav3.2
Clone:	N55-10 (Formerly S55-10)
Isotype:	IgG1
Specificity:	Detects ~260 kDa. No cross-reactivity against Cav1.3.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

#### Target Details

Target:	CACNA1H
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## Target Details

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Alternative Name:	Cav3.2 ( <a href="#">CACNA1H Products</a> )
Background:	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 (1, 2). Studies also suggest that the up-regulations of CaV3.2 may participate in the progression of prostate cancer toward an androgen-independent stage (3).
Gene ID:	8912
NCBI Accession:	<a href="#">NP_001005407</a>
UniProt:	<a href="#">O95180</a>
Pathways:	<a href="#">C21-Steroid Hormone Metabolic Process</a>

## Application Details

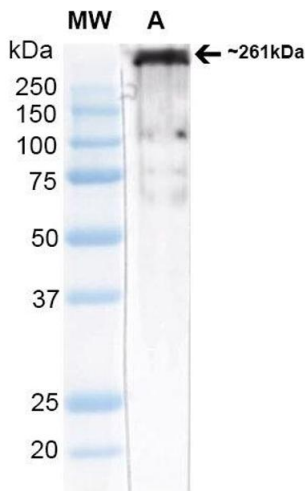
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Application Notes:	<ul style="list-style-type: none"><li>• WB (1:1000)</li><li>• IHC (1:1000)</li><li>• ICC/IF (1:100)</li><li>• optimal dilutions for assays should be determined by the user.</li></ul>
Comment:	1 µg/ml of ABIN2482861 was sufficient for detection of Cav3.2 in 10 µg of HEK cell lysate expressing Cav3.2 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

## Handling

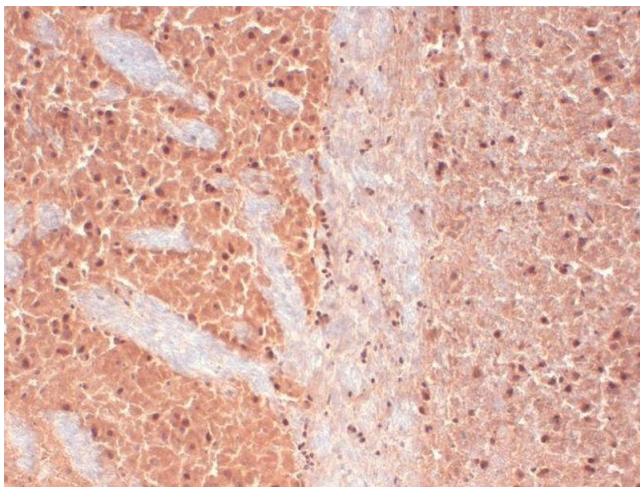
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Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C



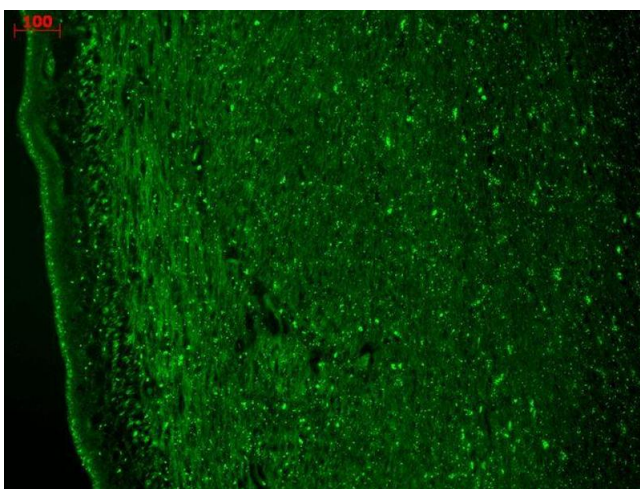
### Western Blotting

**Image 1.** Western Blot analysis of Rat brain membrane lysate (native) showing detection of ~261 kDa Cav3.2 protein using Mouse Anti-Cav3.2 Monoclonal Antibody, Clone N55/10 (ABIN2482861). Block: 2 % Skim Milk + 2 % BSA in TBST. Primary Antibody: Mouse Anti-Cav3.2 Monoclonal Antibody (ABIN2482861) at 1:1000 for 2 hours at RT. Secondary Antibody: Anti-Mouse: HRP at 1:4000. Predicted/Observed Size: ~261 kDa.



### Immunohistochemistry

**Image 2.** Immunohistochemistry analysis using Mouse Anti-CaV3.2 Calcium channel Monoclonal Antibody, Clone S55-10. Tissue: frozen brain section. Species: human. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-CaV3.2 Calcium channel Monoclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown) for 30 minutes at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500  $\mu$ l for 5 minutes at RT.



### Immunohistochemistry

**Image 3.** Immunohistochemistry analysis using Mouse Anti-CaV3.2 Calcium Channel Monoclonal Antibody, Clone S55-10. Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-CaV3.2 Calcium Channel Monoclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.