Datasheet for ABIN361760

anti-CACNA1D antibody (AA 859-875)

5 Images

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Overview

Quantity:	100 µg
Target:	CACNA1D
Binding Specificity:	AA 859-875
Reactivity:	Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CACNA1D antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Western Blotting (WB), Immunoprecipitation (IP), Immunofluorescence (IF), Immunocytochemistry (ICC), Antibody Array (AA)

Product Details

Immunogen:	Fusion protein amino acids 859-875 of rat Cav1.3
Clone:	S48
Isotype:	IgG2a kappa
Specificity:	Detects ~250 kDa. No cross-reactivity against Cav1.2.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

Target Details

Target:	CACNA1D

Target Details

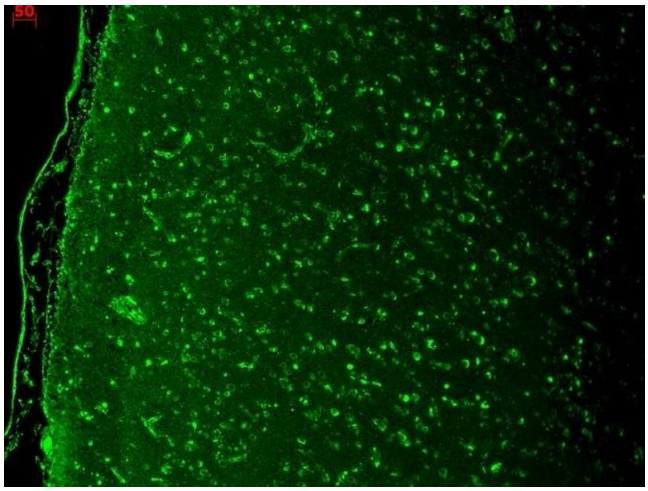
Alternative Name:	Cav1.3 (CACNA1D Products)
Background:	CaV1.3, also known as the calcium channel, voltage-dependent, L type, alpha 1D subunit (CACNA1D), is a human gene. CaV1.3 subunits are primarily expressed in neurons and neuroendocine cells. Some studies suggest however that CaV1.3 is also found in the atria, and may figure prominently in atrial arrhythmias (1). CaV1.3 also carries the primary sensory receptors of the mammalian cochlea, and are also expressed in the electromotile outer hair cells (2).
Gene ID:	29716
NCBI Accession:	NP_058994
UniProt:	P27732
Pathways:	Sensory Perception of Sound

Application Details

Application Notes:	• WB (1:1000) • IHC (1:1000) • ICC/IF (1:100) • optimal dilutions for assays should be determined by the user.
Comment:	1 µg/ml of ABIN361760 was sufficient for detection of Cav1.3 in 10 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

Handling

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:	-20 °C
Storage Comment:	-20°C



Immunohistochemistry

Image 1. Immunohistochemistry analysis using Mouse Anti-CaV1.3 Calcium Channel Monoclonal Antibody, Clone S48 (ABIN361760). Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-CaV1.3 Calcium Channel Monoclonal Antibody (ABIN361760) at 1:1000 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.

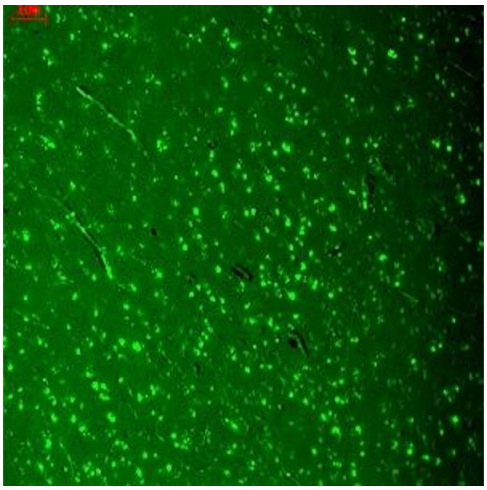


Image 2. Cav1.3 (S48A-9), Human hippocampus

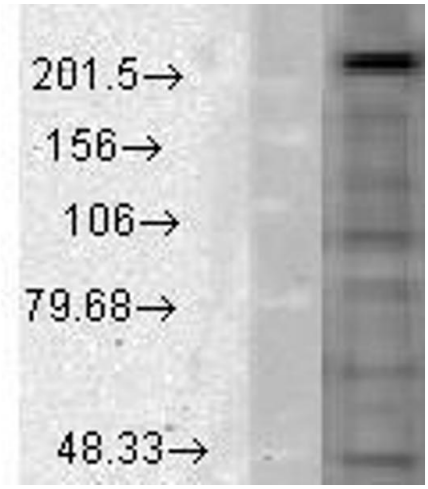


Image 3. Cav1.3 (S48A-9), human cell line mix

Please check the product details page for more images. Overall 5 images are available for ABIN361760.

