

Anti-Cav1.2 Ca²⁺ Channel Recombinant Chicken Chimeric mAb

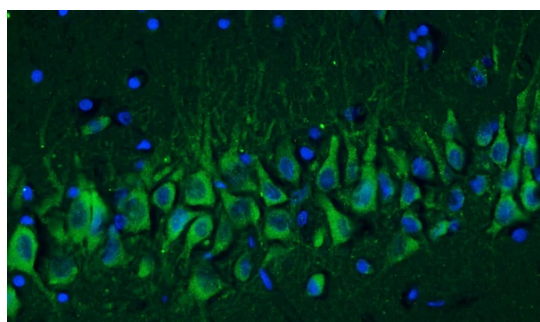


Product Details

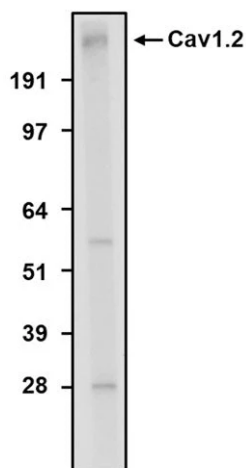
Available Variants	100 µL (SKU:78-535) 20 µL (SKU:78-535-020)
Conjugate	Unconjugated
Isotype	IgY
Clone	N500/4
Gene Name	Cacna1c
Host Species	Chicken
Concentration	1 mg/mL
Format	Purified by affinity chromatography
Physical State	Liquid
Buffer	1X PBS, 0.05% Sodium Azide pH 7.4
Production Notes	This recombinant antibody is a chimeric antibody created by replacing the mouse heavy and light constant regions of clone N500/4 with chicken IgY heavy and light constant regions. As such this antibody retains the same binding performance as the original clone N500/4 but can be detected using standard anti-chicken secondary antibodies allowing flexibility for multiplexing applications. This antibody is expressed recombinantly in mammalian cells and then affinity purified from the cell culture media.
Applications	ELISA, ICC, IHC, WB
Dilution Ranges	WB: 1:500-1:1000 WB Brain: 1:500-1:1000 IHC: 1:100-1:500 ICC: 1:100-1:500
Species Reactivity	Human, Mouse, Rat

Immunogen	Recombinant protein amino acids 785-900 (ID I-II cytoplasmic loop) of mouse Cav1.2 (also known as voltage-dependent L-type calcium channel subunit alpha-1C, Cacna1c, accession number Q01815) produced recombinantly in E. Coli.
Specificity	No cross-reactivity reported
Molecular Weight	240 kDa
Quality Control	Each new lot of antibody is quality control tested by Western blot on rat brain membrane fraction and confirmed to stain the expected molecular weight band.
Storage	Aliquot and store at $\leq -20^{\circ}\text{C}$ for long term storage. For short term storage, store at $2-8^{\circ}\text{C}$. For maximum recovery of product, centrifuge the vial prior to removing the cap.
UniProt ID	<u>Q01815</u>
Country of Origin	United States
Shipping	Shipped on ice packs
Expiration	24 months from date of receipt
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.

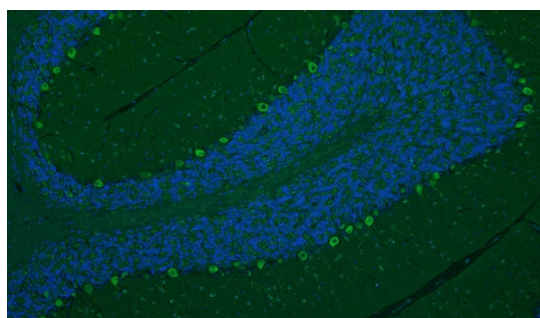
Product Images



Immunohistochemistry for detection of Cav1.2 calcium channel in adult rat hippocampus using Aves Labs' anti-Cav1.2 recombinant chicken monoclonal antibody [N500/4] (Cat No. 78-535). Tissue was fixed with 4% paraformaldehyde and paraffin embedded. Heat induced antigen retrieval was performed using citrate buffer (Cat No. AR-6544) and then blocked with Immuno Protein Blocking Solution with Goat Serum (Cat No. AR-6591). The anti-Cav1.2 antibody (Cat No. 78-535) was incubated with the sample at a dilution of 1:250 at 4C overnight. After washing with PBST, the sections were stained using goat anti-chicken IgY CF488 secondary antibody (Cat No. 80-1001-488) (green). DAPI nuclear stain (blue) shows cell nuclei.



Western blot detection of Cav1.2 Ca²⁺ channel using Aves Labs' anti-Cav1.2 recombinant chicken monoclonal antibody [N500/4] (Cat No. 78-535). 4-12% Bis-Tris Gel was loaded with rat brain membrane fraction. Proteins were transferred to PVDF membrane and blocked with 5% non-fat milk powder. Anti-Cav1.2 antibody was incubated with sample at a concentration of 2 ug/ml and then detected via chemiluminescence (6 min) using a Goat Anti-Chicken H+L, HRP conjugated secondary antibody. Anti-Cav1.2 recognizes endogenous Cav1.2 calcium channel in the rat brain membrane fraction at the expected molecular weight of ~240 kDa.



Immunohistochemistry for detection of Cav1.2 calcium channel in adult rat cerebellum using Aves Labs' anti-Cav1.2 recombinant chicken monoclonal antibody [N500/4] (Cat No. 78-535). Tissue was fixed with 4% paraformaldehyde and paraffin embedded. Heat induced antigen retrieval was performed using citrate buffer (Cat No. AR-6544) and then blocked with Immuno Protein Blocking Solution with Goat Serum (Cat No. AR-6591). The anti-Cav1.2 antibody (Cat No. 78-535) was incubated with the sample at a dilution of 1:250 at 4C overnight. After washing with PBST, the sections were stained using goat anti-chicken IgY CF488 secondary antibody (Cat No. 80-1001-488) (green). DAPI nuclear stain (blue) shows cell nuclei.

Product Page URL: www.antibodiesinc.com/products/anti-cav-1-2-recombinant-antibody-n500-4-78-535



Created on 08. September 2026 | All information without guarantee