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PRODUCT DATASHEET

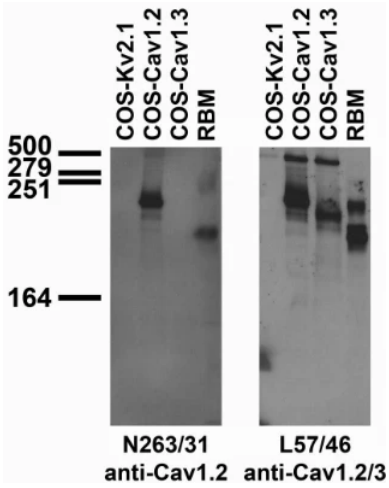
Anti-Cav1.2 Ca2+ Channel Antibody

Product Details

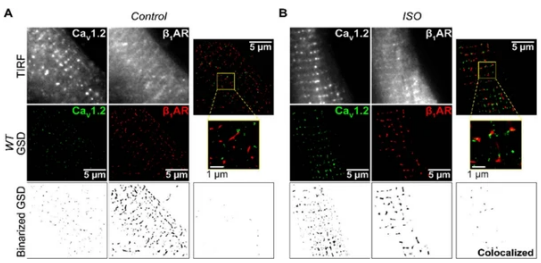
Available Variants	100 µL (SKU:75-257)
Conjugate	Unconjugated
Isotype	IgG2b
Clone	N263/31
Gene Name	Cacna1c Cach2 Cacn2 Cacnl1a1 Cchl1a1
Host Species	Mouse
Concentration	1 mg/mL
Format	Purified by Protein A chromatography
Physical State	Liquid
Buffer	10 mM Tris, 50 mM Sodium Chloride, 0.065% Sodium Azide pH 7.125
Production Notes	Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography. Purified mAbs are >90% specific antibody.
Applications	ELISA, ICC, IHC, WB
Dilution Ranges	WB: 1:1000 IHC: 1:1000 ICC: 1:100
Species Reactivity	Guinea Pig, Human, Mouse, Rat
Immunogen	Fusion protein amino acids 808-874 (cytoplasmic loop between repeat II and III) of rat Cav1.2 (accession number P22002) produced recombinantly in E. Coli
Specificity	Does not cross-react with Cav1.3
Molecular Weight	240 kDa

Quality Control	Each new lot of antibody is quality control tested on cells overexpressing target protein and confirmed to give the expected staining pattern.
Storage	Aliquot and store at ≤ -20°C for long term storage. For short term storage, store at 2-8°C. For maximum recovery of product, centrifuge the vial prior to removing the cap.
Antibody Registry ID	AB_11000167
UniProt ID	P22002
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.

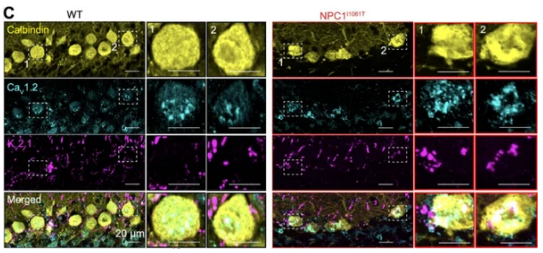
Product Images



Tissue and transfected cell immunoblot: extracts of rat brain membrane (RBM) and COS cells transiently transfected with untagged Cav1.2, Cav1.3 or Kv2.1 plasmids and probed with N263/31 (left) and L57/46 (right) TC supe.



TIRF images (top row), super-resolution GSD localization maps (middle row) and binarized images (bottom row) of immunostained CaV1.2 (Cat. 75-257, 1:200) channels and β1ARs in representative fixed adult ventricular myocytes isolated from WT mice under control (A) or ISO-stimulated conditions (B). Merged two-channel image showing relative distributions of CaV1.2 and β1ARs is shown in the third column with the colocalized binarized image. Image from publication CC-BY-4.0. PMID:37438479



Representative maximum intensity projections from WT (black) and NPC1I1061T (red) mouse cerebellar sagittal sections co-immunolabeled for Calbindin (Cat. 75-448, 2ug/ml) , CaV1.2 (Cat. 75-257, 5ug/ml) and KV2.1 (Cat. 75-014, 10ug/ml). Image from publication CC-BY-4.0.
PMID:37507375