

Product datasheet for **TA309306**

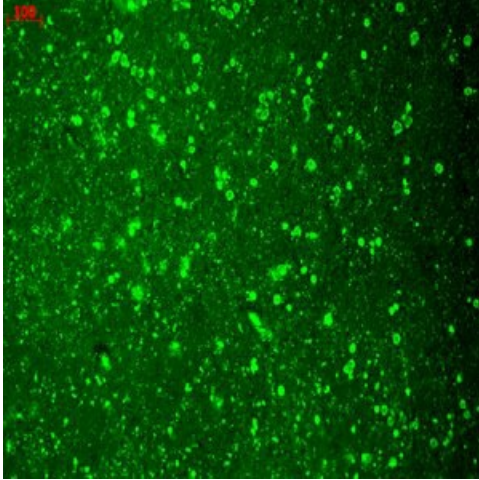
CACNA1C Mouse Monoclonal Antibody [Clone ID: S57-46]

Product data:

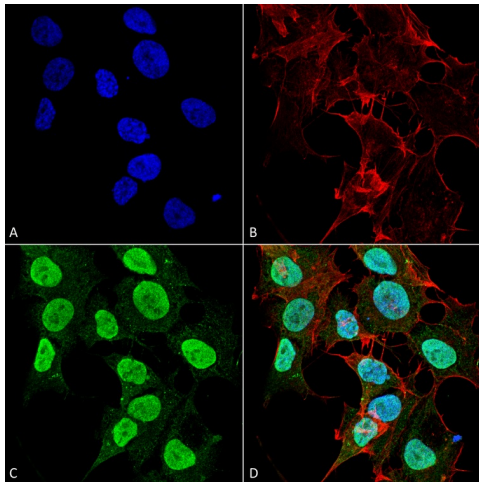
Product Type:	Primary Antibodies
Clone Name:	S57-46
Applications:	ICC/IF, IF, IHC, IP
Recommended Dilution:	WB 1-10ug/ml; IHC/ICC 0.1-1.0ug/ml; IF 1.0-10ug/ml
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Fusion protein amino acids 1507-1733 (intracellular carboxyl terminus) of rabbit Cav1.2, accession number P15381
Formulation:	PBS pH7.4, 50% glycerol
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	calcium voltage-gated channel subunit alpha1 C
Database Link:	NP_000710 Entrez Gene 12288 Mouse Entrez Gene 24239 Rat Entrez Gene 775 Human Q13936
Synonyms:	CACH2; CACN2; CACNL1A1; CaV1.2; CCHL1A1; LQT8; TS
Note:	Detects ~240kDa (varies with cell background due to glycosylation)
Protein Families:	Druggable Genome, Ion Channels: Calcium, Transmembrane
Protein Pathways:	Alzheimer's disease, Arrhythmogenic right ventricular cardiomyopathy (ARVC), Calcium signaling pathway, Cardiac muscle contraction, Dilated cardiomyopathy, GnRH signaling pathway, Hypertrophic cardiomyopathy (HCM), Long-term potentiation, MAPK signaling pathway, Type II diabetes mellitus, Vascular smooth muscle contraction



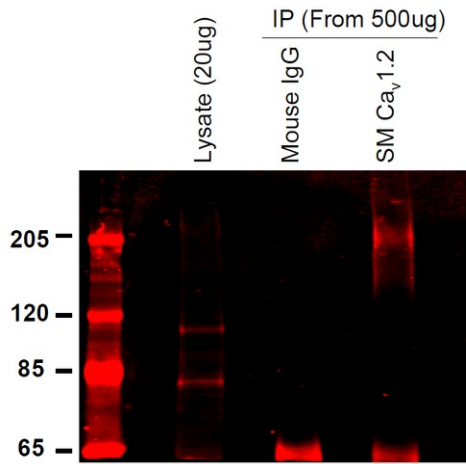
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Product images:

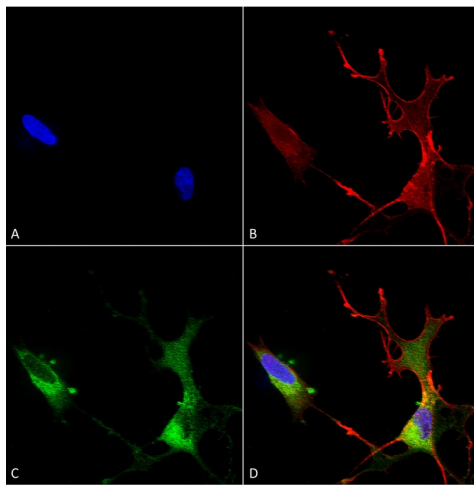
IHC analysis of Cav1.2 in human hippocampus tissues.



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Cav1.2 Monoclonal Antibody, Clone S57 (TA309306). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Cav1.2 Monoclonal Antibody (TA309306) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:200 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60 min at RT, 5 min at RT. Localization: Cell Membrane, Membrane, Cytoplasm, Nucleoplasm. Magnification: 60X. (A) Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain. (B) Anti-Cav1.2 Antibody. (C) Composite. (A) DAPI (blue) nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) Cav1.2 Antibody. (D) Composite.



Immunoprecipitation analysis using Mouse Anti-CaV1.2 Calcium Channel Monoclonal Antibody, Clone S57 (TA309306). Tissue: INS-1E cells. Species: Rat. Primary Antibody: Mouse Anti-CaV1.2 Calcium Channel Monoclonal Antibody (TA309306) at 1:200. Courtesy of: Merrie Mosedale.



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Cav1.2 Monoclonal Antibody, Clone S57 (TA309306). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-Cav1.2 Monoclonal Antibody (TA309306) at 1:50 for overnight at 4°C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain; Hoechst (blue) nuclear stain at 1:800, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) Cav1.2 Antibody (D) Composite.