

Product datasheet for **AP55389PU-N**

CACNA1B (alpha-1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA. Western Blot: 1/500-1/2000. Immunohistochemistry: 1/100-1/500.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide derived from N-terminal domain of CACNA1B protein
Specificity:	Reacts with Human 262 kDa CACNA1B protein.
Formulation:	0.1M Tris, 0.1M Glycine and 2% Sucrose State: Purified State: Lyophilized powder Preservative: None
Reconstitution Method:	Restore in distilled water.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store lyophilized antibody at -20°C Store reconstituted antibody at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	calcium voltage-gated channel subunit alpha1 B
Database Link:	Entrez Gene 774 Human Q00975



[View online »](#)

Background:

Voltage-sensitive calcium channels (VSCCs) mediate the entry of calcium ions into excitable cells and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, gene expression, cell motility, cell division and cell death. The isoform alpha-1b gives rise to N-type calcium currents. N-type calcium channels belong to the 'high-voltage activated' (hva) group and are blocked by omega-conotoxin-GVIA (omega-ctx-GVIA) and by omegaagatoxin-IIIa (omega-aga-IIIa). They are however insensitive to dihydropyridines (dhp), and omega-agatoxin-IVA (omegaaga-IVA). Calcium channels containing alpha-1b subunit may play a role in directed migration of immature neurons.

Synonyms:

CACH5, CACNL1A5, Cav2.2, Brain calcium channel III