

Product datasheet for **AP05132PU-N**

CACNA1B Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western Blot: 5 - 10 µg/ml.
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide derived from the rat alpha1B calcium channel conjugated to KLH.
Specificity:	This antibody reacts to CACNA1B.
Formulation:	Phosphate buffered saline with 0.08% sodium azide State: Purified State: Liquid purified Ig
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	The antibody can be shipped at ambient temperature. Store (in aliquots) at -20°C only. 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



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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