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AP55385PU-N Polyclonal Antibody to CACNB3 - Purified

Alternate names: CAB3, CACNLB3, Calcium channel voltage-dependent subunit beta 3, Voltage-dependent L-type calcium channel subunit beta-3

Quantity: 0.1 mg

Concentration: 1 mg/ml

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. Long-lasting (L-type) calcium channels belong to the 'high-voltage activated' (HVA) group. They are blocked by dihydropyridines (DHP), phenylalkylamines, benzothiazepines, and by omega-agatoxin-IIIA (omega-aga-IIIA). They are however insensitive to omega-conotoxin-GVIA (omega-ctx-GVIA) and omega-agatoxin-IVA (omega-aga-IVA). The overall conclusion is that deletion of the beta 3 subunit affects at least three distinct types of High voltage activated Ca^{2+} channel (L,N and P/Q types), but no single type of channel is solely dependent on beta 3.

Uniprot ID: P54284

NCBI: NP_000716.2

GeneID: 784

Host: Rabbit

Immunogen: Synthetic peptide derived from CAB3 protein

Format:
State: Lyophilized purified antibody
Purification: Affinity Chromatography on Protein A
Buffer System: 0.1M Tris, 0.1M Glycine and 2% Sucrose
Preservatives: None
Reconstitution: Restore in distilled water.

Applications:
ELISA.
Western Blot: 1/500-1/5000.
Immunohistochemistry: 1/100-1/500.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity: Reacts with Human 54 kDa protein.

Species Reactivity:
Tested: Human.
Expected from sequence similarity: Mouse, Rat.

Storage: Store reconstituted antibody at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.