

## CACNA1D RABBIT PAB

**Cat.#:** S220415

**Product Name:** Anti-CACNA1D Rabbit Polyclonal Antibody

**Synonyms:** CACH3; CACN4; PASNA; SANDD; Cav1.3; CCHL1A2; CACNL1A2

**UNIPROT ID:** Q01668 (Gene Accession - NP\_001122312 )

**Background:** Voltage-dependent calcium channels 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, and gene expression. Calcium channels are multisubunit complexes composed of alpha-1, beta, alpha-2/delta, and gamma subunits. The channel activity is directed by the pore-forming alpha-1 subunit, whereas the others act as auxiliary subunits regulating this activity. The distinctive properties of the calcium channel types are related primarily to the expression of a variety of alpha-1 isoforms, namely alpha-1A, B, C, D, E, and S. This gene encodes the alpha-1D subunit. Several transcript variants encoding different isoforms have been found for this gene.

**Immunogen:** Synthetic peptide of human CACNA1D

**Applications:** ELISA, IHC

**Recommended Dilutions:** IHC: 50-200; ELISA: 2000-5000

**Host Species:** Rabbit

**Clonality:** Rabbit Polyclonal

**Isotype:** Immunogen-specific rabbit IgG

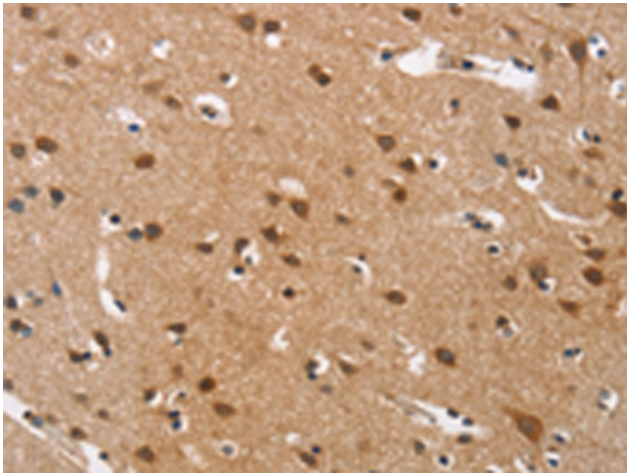
**Purification:** Antigen affinity purification

**Species Reactivity:** Human, Rat

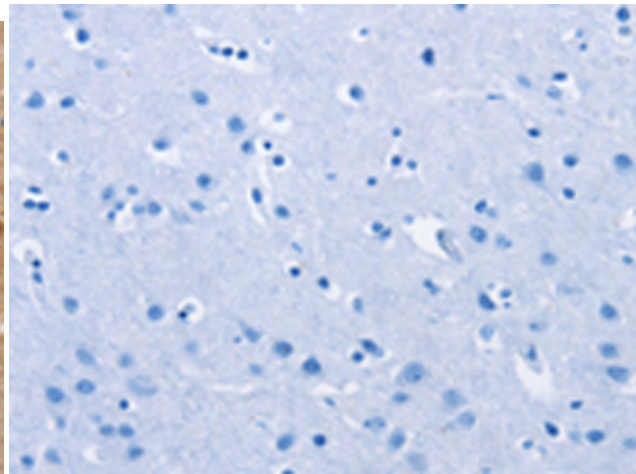
**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40% glycerol

**Research Areas:** Signal Transduction, Cancer, Metabolism, Neuroscience

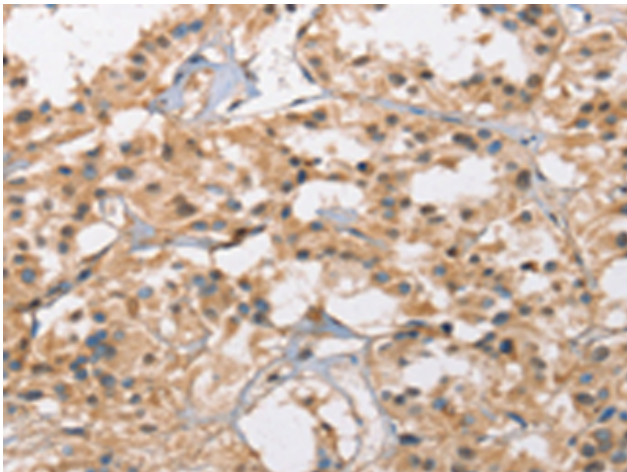
**Storage & Shipping:** Store at -20°C. Avoid repeated freezing and thawing



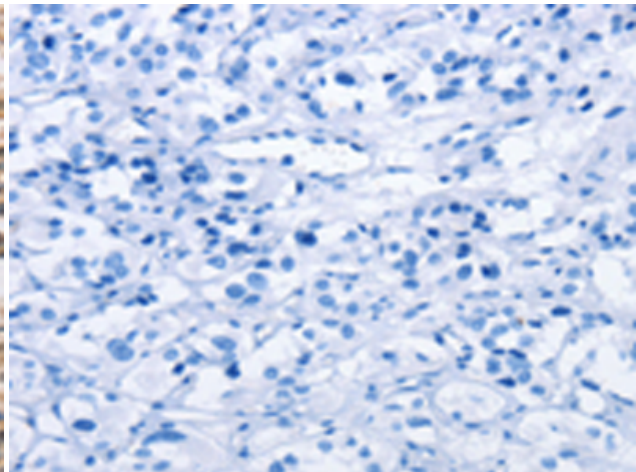
Immunohistochemistry analysis of paraffin embedded Human brain tissue using 220415(CACNAID Antibody) at a dilution of 1/40(Cytoplasm).



In comparison with the IHC on the left, the same paraffin-embedded Human brain tissue is first treated with the synthetic peptide and then with 220415(Anti-CACNAID Antibody) at dilution 1/40.



The image on the left is immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using 220415(Anti-CACNAID Antibody) at a dilution of 1/40.



In comparison with the IHC on the left, the same paraffin-embedded Human thyroid cancer tissue is first treated with synthetic peptide and then with D261498(Anti-CACNAID Antibody) at dilution 1/40.