

## **Product Description**

Pioneering GTPase and Oncogene Product Development since 2010

## **CACNA1G RABBIT PAB**

Cat.#: S220417

Product Name: Anti-CACNAIG Rabbit Polyclonal Antibody

**Synonyms:** NBR13; Cav3.1; Ca(V)T.1

**UNIPROT ID:** O43497 (Gene Accession - NP\_061496)

**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, alpha-1A, B, C, D, E, and S. This gene encodes the alpha-1A subunit, which is predominantly expressed in neuronal tissue. Mutations in this gene are associated with 2 neurologic disorders, familial hemiplegic migraine and episodic ataxia 2.

**Immunogen:** Synthetic peptide of human CACNAIG

**Applications:** ELISA, IHC

**Recommended Dilutions:** IHC: 15-50; ELISA: 1000-2000

Host Species: Rabbit

**Clonality:** Rabbit Polyclonal

**Isotype:** Immunogen-specific rabbit IgG **Purification:** Antigen affinity purification

Species Reactivity: Human, Rat

Constituents: PBS (without Mg2+ and Ca2+), pH 7.4, 150 mM NaCl, 0.05% Sodium Azide and 40%

glycerol

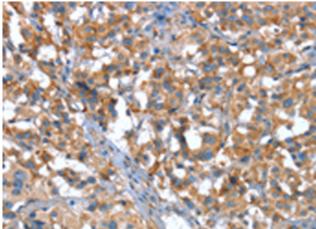
Research Areas: Signal Transduction

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

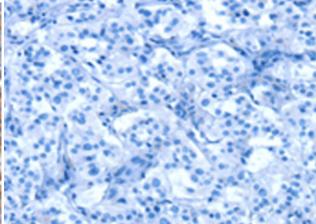


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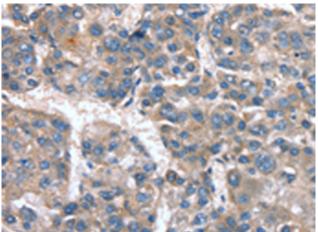
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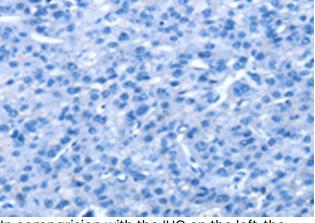
Immunohistochemistry analysis of paraffin embedded Human thyroid cancer tissue using 220417(CACNAIG Antibody) at a dilution of 1/20(Cytoplasm).



In comparision with the IHC on the left, the same paraffin-embedded Human thyroid cancer tissue is first treated with the synthetic peptide and then with 220417(Anti-CACNAIG Antibody) at dilution 1/20.



The image on the left is immunohistochemistry of paraffinembedded Human liver cancer tissue using 220417(Anti-CACNAIG Antibody) at a dilution of 1/20.



In comparision with the IHC on the left, the same paraffin-embedded Human liver cancer tissue is first treated with synthetic peptide and then with D261501(Anti-CACNAIG Antibody) at dilution 1/20.