

Product datasheet for TA351022S

CACNA1A Rabbit Polyclonal Antibody

Product data:

| Product Type: Applications: Recommended Dilution: | Primary Antibodies IHC IHC: 15-50 Positive control: Human liver cancer Predicted cell location: Cytoplasm |
|---|---|
| Reactivity: | Human |
| Host: | Rabbit |
| lsotype: | lgG |
| Clonality: | Polyclonal |
| Immunogen: | Synthetic peptide of human CACNA1A |
| Formulation: | pH7.4 PBS, 0.05% NaN3, 40% GlyceroIn |
| Purification: | Antigen affinity purification |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Gene Name: | calcium voltage-gated channel subunit alpha1 A |
| Database Link: | <u>NP 075461</u> <u>Entrez Gene 773 Human</u> <u>000555</u> |

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

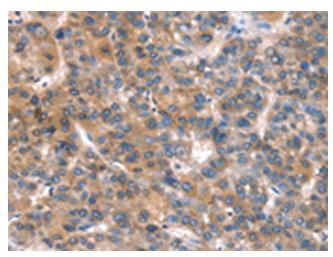


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CACNA1A Rabbit Polyclonal Antibody – TA351022S

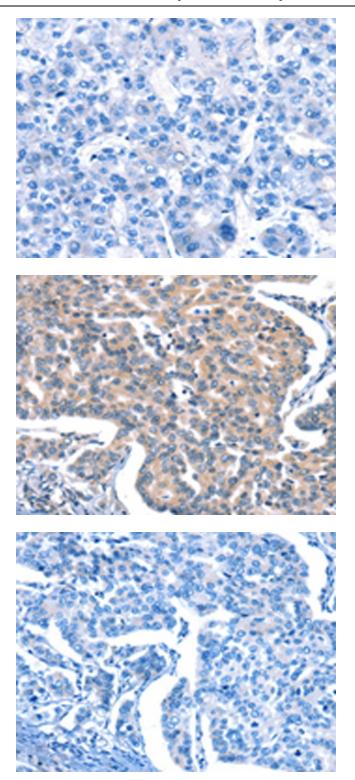
| Background: | Voltage-dependent calcium channels mediate the entry of calcium ions into excitable cells, and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, and gene expression. Calcium channels are multisubunit complexes 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. This gene also exhibits polymorphic variation due to (CAG)n-repeats. Multiple transcript variants encoding different isoforms have been found for this gene. In one set of transcript variants, the (CAG)n-repeats occur in the 3' UTR, and are not associated with any disease. But in another set of variants, an insertion extends the coding region to include the (CAG)n-repeats which encode a polyglutamine tract. Expansion of the (CAG)n-repeats from the normal 4-16 to 21-28 in the coding region is associated with spinocerebellar ataxia 6. |
|-------------------|--|
| Synonyms: | APCA; BI; CACNL1A4; CAV2.1; EA2; EIEE42; FHM; HPCA; MHP; MHP1; SCA6 |
| Protein Families: | Druggable Genome, Ion Channels: Calcium, Transmembrane |
| Protein Pathways: | Calcium signaling pathway, Long-term depression, MAPK signaling pathway, Taste transduction, Type II diabetes mellitus |

Product images:



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using [TA351022] (CACNA1A Antibody) at dilution 1/15 (Original magnification: ×200)

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Immunohistochemistry of paraffin-embedded Human liver cancer tissue using [TA351022] (CACNA1A Antibody) at dilution 1/15, treated with synthetic peptide. (Original magnification: ×200)

Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using [TA351022] (CACNA1A Antibody) at dilution 1/15 (Original magnification: ×200)

Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using [TA351022] (CACNA1A Antibody) at dilution 1/15, treated with synthetic peptide. (Original magnification: ×200)

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