

Datasheet for ABIN350147

anti-CACNA1I antibody (Cytoplasmic Domain)



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Overview

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| Quantity: | 500 µg |
| Target: | CACNA1I |
| Binding Specificity: | Cytoplasmic Domain |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This CACNA1I antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC) |

Product Details

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| Immunogen: | A synthetic peptide from a cytoplasmic domain of human CACNA1I conjugated to an immunogenic carrier protein was used as the antigen. The peptide is homologous in rat and mouse. |
| Isotype: | IgG |
| Specificity: | Specific for CACNA1I. |
| Cross-Reactivity: | Human, Mouse, Rat |
| Cross-Reactivity (Details): | Other species not yet tested. |
| Purification: | IgG |

Target Details

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| Target: | CACNA1I |
| Alternative Name: | CACNA1I (CACNA1I Products) |
| Background: | <p>Function: Voltage-sensitive calcium channels (VSCC) 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. Isoform alpha-1I gives rise to T-type calcium currents. T-type calcium channels belong to the "low-voltage activated (LVA)" group and are strongly blocked by nickel and mibefradil. A particularity of this type of channels is an opening at quite negative potentials, and a voltage-dependent inactivation. T-type channels serve pacemaking functions in both central neurons and cardiac nodal cells and support calcium signaling in secretory cells and vascular smooth muscle. They may also be involved in the modulation of firing patterns of neurons which is important for information processing as well as in cell growth processes. Gates in voltage ranges similar to, but higher than alpha 1G or alpha 1H. Subcellular location: Membrane, Multi-pass membrane protein. Tissue specificity: Brain specific,Alpha Subunit,Voltage-dependent T-type calcium channel subunit alpha-1I, Voltage-gated calcium channel subunit alpha Cav3.3</p> |
| UniProt: | Q9P0X4 |

Application Details

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| Application Notes: | IHC, WB. A concentration of 10-50 µg/ml is recommended. The optimal concentration should be determined by the end user. Not tested in other applications. |
| Restrictions: | For Research Use only |

Handling

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| Format: | Lyophilized |
| Reconstitution: | Reconstitute in 500 µL of sterile water. Centrifuge to remove any insoluble material. |
| Handling Advice: | Avoid freeze and thaw cycles. |
| Storage: | 4 °C/-20 °C |
| Storage Comment: | Maintain the lyophilised/reconstituted antibodies frozen at -20°C for long term storage and refrigerated at 2-8°C for a shorter term. When reconstituting, glycerol (1:1) may be added for an additional stability. Avoid freeze and thaw cycles. |
| Expiry Date: | 12 months |