

## Rabbit CACNA1H Polyclonal Antibody | anti-CACNA1H antibody

CACNA1H Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                  |
|-----------|--------|-------------------|---------------------------------------------------------------|
| AAA40552  | Rabbit | Human, Mouse, Rat | Western Blot, Immunohistochemistry, Immunofluorescence, ELISA |

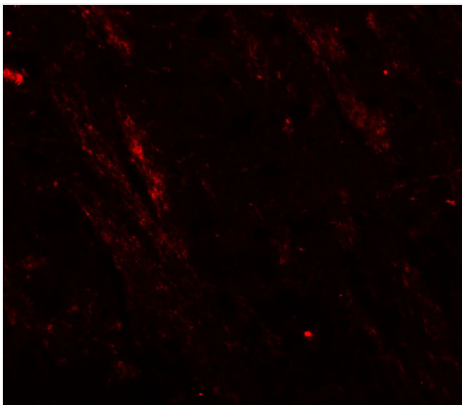
### PRODUCT SYNONYMS

CACNA1H; Polyclonal Antibody; CACNA1H Antibody; Calcium channel voltage-dependent T type alpha 1H subunit; CACNA1HB; Cav3.2; ECA6; EIG6; calcium channel; voltage-dependent; T type; alpha 1H subunit; anti-CACNA1H antibody

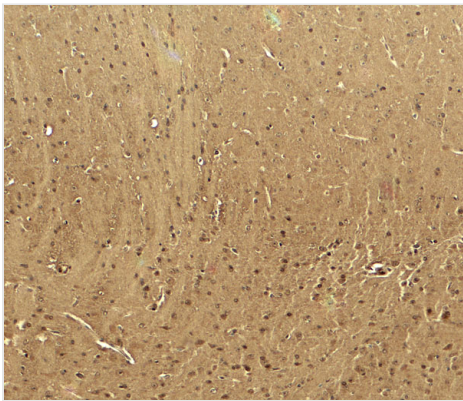
### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                     |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Host                                              | Rabbit                                                                                              |
| Reactivity                                        | Human, Mouse, Rat                                                                                   |
| Clonality                                         | Polyclonal                                                                                          |
| Isotype                                           | IgG                                                                                                 |
| Specificity                                       | CACNA1H antibody is human, mouse and rat reactive. Multiple isoforms of CACNA1H are known to exist. |
| Purity/Purification                               | CACNA1H antibody is affinity chromatography purified via peptide column.                            |
| Form/Format                                       | Liquid                                                                                              |
| Concentration                                     | 1 mg/mL (varies by lot)                                                                             |
| Sequence Length                                   | 2353                                                                                                |
| Applicable Applications for anti-CACNA1H antibody | WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ELISA                       |
| Conjugate                                         | Unconjugated                                                                                        |
| Immunogen                                         | CACNA1H antibody was raised against a 16 amino acid peptide near the center of human CACNA1H.       |
| Buffer                                            | CACNA1H antibody is supplied in PBS containing 0.02% sodium azide.                                  |
| Preparation and Storage                           | CACNA1H antibody can be stored at 4°C for three months and -20°C, stable for up to one year.        |

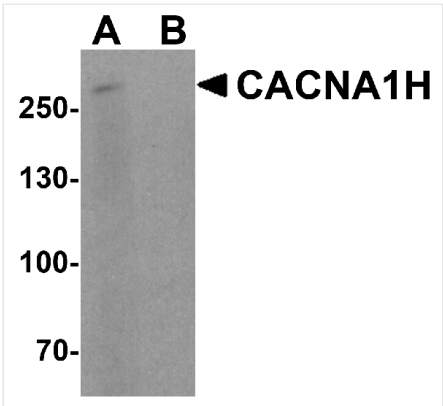
IMAGES



**IF (Immunofluorescence)**  
Immunofluorescence of CACNA1H in mouse brain tissue with CACNA1H antibody at 20 &#956;g/ml.



**IHC (Immunohistochemistry)**  
Immunohistochemistry of CACNA1H in mouse brain tissue with CACNA1H antibody at 5 &#956;g/ml.



**WB (Western Blot)**  
Western blot analysis of CACNA1H in 293 cell lysate with CACNA1H antibody at 1 &#956;g/ml in (A) the absence and (B) the presence of blocking peptide.

ADDITIONAL INFORMATION

**Related Product Information for anti-CACNA1H antibody**

The calcium channel protein CACNA1H is a T-type member of the alpha-1 subunit family that is part of the voltage-dependent calcium channel complex which mediates the influx of calcium ions into the cell upon membrane polarization (1,2). CACNA1H is a subunit of Cav3.2 T-type calcium channel that is involved in neurological disorders such as epilepsy and pain (2,3). CACNA1H associates with the caveolin protein Cav-3 and it is thought that Cav-3 regulates the Protein Kinase A (PKA) modulation of CACNA1H-containing Cav3.2 T-type calcium channels (4).

NCBI AND UNIPROT INFORMATION

|                                  |                                                                        |
|----------------------------------|------------------------------------------------------------------------|
| NCBI GI #                        | 53832009                                                               |
| NCBI GeneID                      | 8912                                                                   |
| NCBI Accession #                 | NP_066921                                                              |
| NCBI GenBank Nucleotide #        | NM_021098.2                                                            |
| UniProt Accession #              | O95180; O95802; Q8WWI6; Q96QI6; Q96RZ9; Q9NYY4; Q9NYY5; B5ME00; F8WFD1 |
| Molecular Weight                 | Predicted: 259 kDa<br>Observed: 260 kDa                                |
| NCBI Official Full Name          | voltage-dependent T-type calcium channel subunit alpha-1H isoform a    |
| NCBI Official Synonym Full Names | calcium channel, voltage-dependent, T type, alpha 1H subunit           |

|                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI Official Symbol</b>          | CACNA1H                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>NCBI Official Synonym Symbols</b> | ECA6; EIG6; Cav3.2; CACNA1HB                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>NCBI Protein Information</b>      | voltage-dependent T-type calcium channel subunit alpha-1H; voltage-gated calcium channel alpha subunit Cav3.2; voltage-gated calcium channel alpha subunit CavT.2; voltage-gated calcium channel subunit alpha Cav3.2; low-voltage-activated calcium channel alpha13.2 subunit; low-voltage-activated calcium channel alpha1 3.2 subunit; voltage dependent t-type calcium channel alpha-1H subunit; calcium channel, voltage-dependent, T type, alpha 1Hb subunit |
| <b>UniProt Protein Name</b>          | Voltage-dependent T-type calcium channel subunit alpha-1H                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>UniProt Gene Name</b>             | <b>CACNA1H</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>UniProt Entry Name</b>            | CAC1H_HUMAN                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cacna1h-antibody-western-blot-immunohistochemistry-immunofluorescence-elisa/40552>