

Anti-CACNB1 Antibody

ER1803-29



| | |
|----------------------------|---|
| Product Type: | Rabbit polyclonal IgG, primary antibodies |
| Species reactivity: | Human, Mouse, Rat |
| Applications: | WB, IHC-P, IF-Cell |
| Molecular Wt: | Predicted band size: 66/58/53 kDa |

Description: The beta subunit of voltage-dependent calcium channels contributes to the function of the calcium channel by increasing peak calcium current, shifting the voltage dependencies of activation and inactivation, modulating G protein inhibition and controlling the alpha-1 subunit membrane targeting.

Immunogen: Synthetic peptide within mouse CACNB1 aa 439-488 / 597.

Positive control: SH-SY-5Y, rat heart tissue, human tonsil tissue, human kidney tissue, human fetal skeletal muscle tissue, mouse brain tissue, rat skeletal muscle tissue.

Subcellular location: Cell membrane.

Database links: SwissProt: Q02641 Human | Q8R3Z5 Mouse | P54283 Rat

Recommended Dilutions:

| | |
|----------------|---------------|
| WB | 1:500-1:1,000 |
| IHC-P | 1:50-1:200 |
| IF-Cell | 1:50 |

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

Purity: Immunogen affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders: 0086-571-88062880

Technical: 0086-571-89986345

Service mail: support@huabio.cn

华安生物
HUABIO
www.huabio.cn

Applications: WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

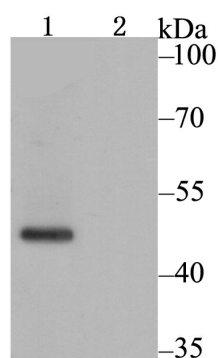


Fig1: Western blot analysis of CACNB1 on SH-SY-5Y cell lysate using anti-CACNB1 antibody at 1/1,000 dilution.

Lane 1: SH-SY-5Y cell lysate

Lane 2: SH-SY-5Y cell lysate with immunization peptide

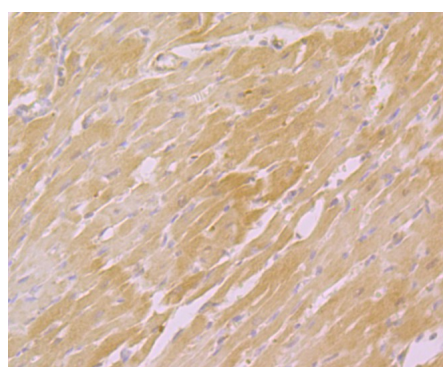


Fig2: Immunohistochemical analysis of paraffin-embedded rat heart tissue using anti-CACNB1 antibody. Counter stained with hematoxylin.

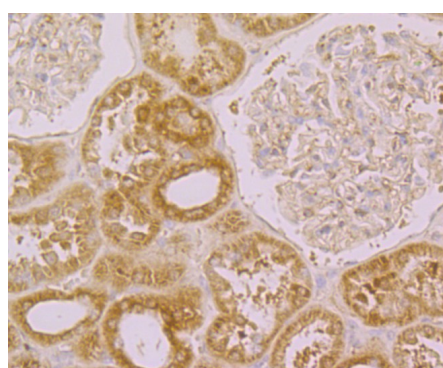


Fig3: Immunohistochemical analysis of paraffin-embedded human fetal skeletal muscle tissue using anti-CACNB1 antibody. Counter stained with hematoxylin.

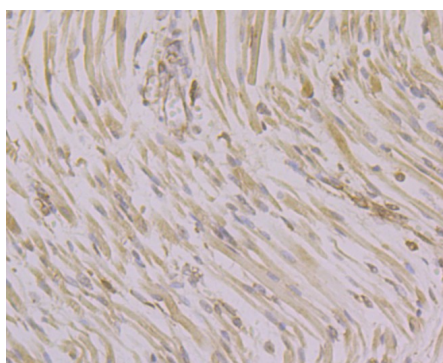


Fig4: Immunohistochemical analysis of paraffin-embedded human fetal skeletal muscle tissue using anti-CACNB1 antibody. Counter stained with hematoxylin.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物
HUABIO
www.huabio.cn

Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

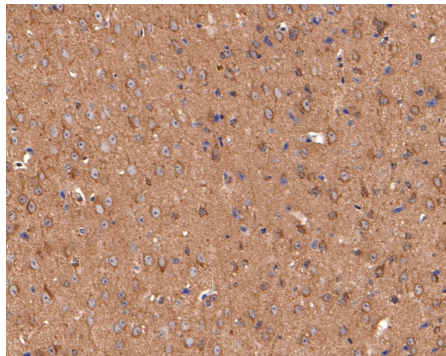


Fig5: Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-CACNB1 antibody. Counter stained with hematoxylin.

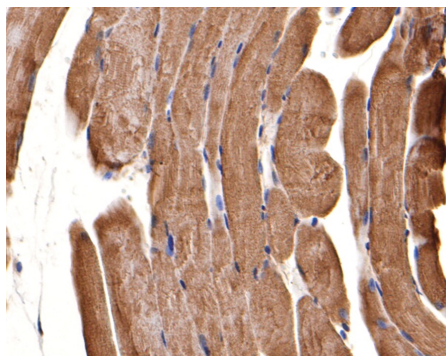


Fig6: Immunohistochemical analysis of paraffin-embedded rat skeletal muscle tissue with Rabbit anti-CACNB1 antibody (ER1803-29) at 1/200 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ER1803-29) at 1/200 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Brust P F et al. Human neuronal voltage-dependent calcium channels: studies on subunit structure and role in channel assembly. *Neuropharmacology* 32:1089-1102 (1993).
2. Sjoebloom T et al. The consensus coding sequences of human breast and colorectal cancers. *Science* 314:268-274 (2006).

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物
HUABIO
www.huabio.cn

Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation