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- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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L-type Ca⁺⁺ CP α1D (m): 293T Lysate: sc-121266

BACKGROUND

Voltage-dependent Ca²⁺ channels mediate Ca²⁺ entry into excitable cells in response to membrane depolarization, and they are involved in a variety of Ca⁺⁺-dependent processes, including muscle contraction, hormone or neurotransmitter release and gene expression. Calcium channels are highly diverse, multimeric complexes composed of an α-1 subunit, an intracellular β subunit, a disulfide linked α-2/δ subunit and a transmembrane γ subunit. Ca²⁺ currents are characterized on the basis of their biophysical and pharmacologic properties and include L-, N-, T-, P-, Q-, and R- types. L-type Ca²⁺ currents initiate muscle contraction, endocrine secretion and gene transcription, and can be regulated through second-messenger activated protein phosphorylation pathways. L-type calcium channels may form macromolecular signaling complexes with G protein-coupled receptors, thereby enhancing the selectivity of regulating specific targets.

REFERENCES

- Perez-Reyes, E., et al. 1995. Molecular biology of calcium channels. *Kidney Int.* 48: 1111-1124.
- Randall, A.D. 1998. The molecular basis of voltage-gated Ca²⁺ channel diversity: is it time for T? *J. Membr. Biol.* 161: 207-213.
- Catterall, W.A. 2000. Structure and regulation of voltage-gated Ca²⁺ channels. *Annu. Rev. Cell Dev. Biol.* 16: 521-555.
- Davare, M.A., et al. 2001. A β2 adrenergic receptor signaling complex assembled with the Ca²⁺ channel Cav1.2. *Science* 293: 98-101.
- Online Mendelian Inheritance in Man, OMIM™. 2001. Johns Hopkins University, Baltimore, MD. MIM Number: 601011. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: *Cacna1d* (mouse) mapping to 14 B.

PRODUCT

L-type Ca⁺⁺ CP α1D (m): 293T Lysate represents a lysate of mouse L-type Ca⁺⁺ CP α1D transfected 293T cells and is provided as 100 μg protein in 200 μl SDS-PAGE buffer.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

L-type Ca⁺⁺ CP α1D (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive L-type Ca⁺⁺ CP α1D antibodies. Recommended use: 10-20 μl per lane.

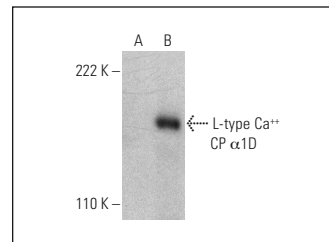
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

L-type Ca⁺⁺ CP α1D (E-3): sc-515679 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse L-type Ca⁺⁺ CP α1D expression in L-type Ca⁺⁺ CP α1D transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



L-type Ca⁺⁺ CP α1D (E-3): sc-515679. Western blot analysis of L-type Ca⁺⁺ CP α1D expression in non-transfected: sc-117752 (A) and mouse L-type Ca⁺⁺ CP α1D transfected: sc-121266 (B) 293T whole cell lysates.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.