

Ca²⁺ channel N-type, α -1B subunit

Cat.No. 152-3P; control protein, 100 µg protein (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg protein, lyophilized. For reconstitution add 100 µl H ₂ O to get a 1mg/ml solution in TBS. Then aliquot and store at -20°C until use.
Immunogen	Recombinant protein corresponding to AA 2056 to 2336 from rat Ca ²⁺ channel N-type α -1B (UniProt ID: Q02294)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	152 303, 152 305, 152 311, 152 313
Remarks	This control protein consists of the recombinant protein (aa 2056-2336 of rat Ca ²⁺ α -1B) that has been used for immunization. It has been tested in preadsorption experiments and blocks efficiently and specifically the corresponding signal in Western blots. The amount of peptide needed for efficient blocking depends on the titer and on the affinity of the antibody to the antigen.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Voltage gated calcium channels (VGCCs), also referred to as voltage sensitive calcium channels (VSCCs), are present in most excitable cells. They mediate the influx of Ca²⁺ ions into the cell and trigger the release of neurotransmitters or hormones but are also involved in other calcium dependent processes like metabolism, cell proliferation and cell death.

VGCCs are composed of four subunits (α -1, α -2, β and δ) in a 1:1:1:1 ratio. The α -1A isoform occurs in VGCCs of the P/Q-type while isoform α -1B is found in the **N-type**. Both belong to the high voltage activated group (hva).

Selected General References

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