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## Ca2+ channel N-type, α-1B subunit

Cat.No. 152 305; Polyclonal Guinea pig antibody, 50 µg specific antibody (lyophilized)

## **Data Sheet**

Reconstitution/ Storage	50 $\mu g$ specific antibody, lyophilized. Affinity purified with the immunogen. Guinea pig serum albumin was added for stabilization. For reconstitution add 50 $\mu$ l H <sub>2</sub> O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1: 1000 (see remarks) IP: not tested yet ICC: not tested yet IHC: 1: 500 (see remarks) IHC-P/FFPE: not tested yet EM: yes
Immunogen	Recombinant protein corresponding to AA 2056 to 2336 from rat Ca2+ channel N-type $lpha$ -1B (UniProt Id: Q02294)
Reactivity	Reacts with: rat (Q02294), mouse (O55017). Other species not tested yet.
Specificity	Specific for Ca <sup>2+</sup> channel α-1B.
matching control	152-3P
Remarks	<b>WB</b> : Due to its large size, this antibody requires special gel-electrophoresis and Western blot protocols for visualization by immunoblotting. Excellent results can be obtained with the 4-12% TRIS-glycine gradient gels of anamed or NuPage TRIS-acetate gels from Invitrogen.  This protein tends to aggregate after boiling, making it necessary to run SDS-PAGE with non-boiled samples.
	IHC: This antibody requires mild fixation. recommended protocol

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

**V**oltage **g**ated **c**alcium **c**hannels (VGCCs), also referred to as voltage sensitive calcium channels (VSCCs), are present in most excitable cells. They mediate the influx of Ca<sup>2+</sup> ions into the cell and trigger the release of neurotransmitters or hormons but are also involved in other calcium dependent processes like metabolism, cell proliferation and cell death.

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

## **Selected General References**

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