

## Ca<sup>2+</sup> channel P/Q-type, $\alpha$ -1A subunit

Cat.No. 152 205; Polyclonal Guinea pig antibody, 50  $\mu$ g 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	<b>WB:</b> 1 : 1000 (see remarks) <b>IP:</b> not tested yet <b>ICC:</b> not tested yet <b>IHC:</b> 1 : 500 (see remarks) <b>IHC-P/FFPE:</b> not tested yet <b>EM:</b> yes
Immunogen	Recombinant protein corresponding to AA 1921 to 2212 from rat Ca <sup>2+</sup> channel P/Q-type $\alpha$ -1A (UniProt Id: P54282)
Reactivity	Reacts with: rat (P54282), mouse (P97445). Other species not tested yet.
Specificity	Specific for Ca <sup>2+</sup> channel $\alpha$ -1A. (K.O. verified)
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.  <b>IHC:</b> This antibody requires mild fixation. recommended protocol

**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 Ca<sup>2+</sup> 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 ( $\alpha$ -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 References SYSY Antibodies

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