

## Ca<sup>2+</sup> channel L-type, $\alpha$ -1C subunit

Cat.No. 334 002; Polyclonal rabbit antibody, 200  $\mu$ l antiserum (lyophilized)

### Data Sheet

Reconstitution/ Storage	200 $\mu$ l antiserum, lyophilized. For reconstitution add 200 $\mu$ l H <sub>2</sub> O, then aliquot and store at -20°C until use.
Applications	<b>WB:</b> 1 : 1000 (AP staining) (see remarks) <b>IP:</b> not tested yet <b>ICC:</b> not tested yet <b>IHC:</b> not tested yet <b>IHC-P/FFPE:</b> not tested yet
Immunogen	Recombinant protein corresponding to AA 1901 to 2169 from rat Ca <sup>2+</sup> channel L-type $\alpha$ -1C (UniProt Id: P22002)
Reactivity	Reacts with: rat (P22002), mouse (Q01815). Other species not tested yet.
Specificity	Specific for Ca <sup>2+</sup> channel $\alpha$ -1C subunit.
Remarks	<b>WB:</b> Due to its large size, Ca-channels require special gel-electrophoresis and Western blot protocols for visualization by immunoblotting. Excellent results can be obtained with NuPage TRIS-acetate gels from Invitrogen. Unboiled samples are recommended.

### 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  **$\alpha$ -1C subunit** occurs in VGCCs of the L-type which belongs to the high voltage activated group (hva).

### Selected General References

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