

Ca²⁺ channel L-type, α -1F subunit

Cat.No. 365 003; Polyclonal rabbit antibody, 50 μ g specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 μ g specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 μ l H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: not recommended IP: not tested yet ICC: not tested yet IHC: 1 : 500 up to 1 : 1000 IHC-P/FFPE: 1 : 1000
Immunogen	Recombinant protein corresponding to AA 1667 to 1985 from mouse Cav1.4 (UniProt Id: Q7TNI3)
Reactivity	Reacts with: mouse (Q9JIS7). Other species not tested yet.
Specificity	Specific for the Ca ²⁺ channel α -1F subunit.

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 -1F subunit** occurs in VGCCs of the L-type expressed in the retina.

Selected General References

Isolation and characterization of a calcium channel gene, Cacna1f, the murine orthologue of the gene for incomplete X-linked congenital stationary night blindness.
Naylor MJ, Rancourt DE, Bech-Hansen NT
Genomics (2000) 66(3): 324-7.