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Kv3.1b

Cat.No. 242-0P; control peptide, 100 µg peptide (lyophilized)

Data Sheet

Reconstitution/ Storage	100 μg peptide, lyophilized. For reconstitution add 100 μl H₂O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use. Control peptides should also be stored at -20°C when still lyophilized!
Immunogen	Synthetic peptide corresponding to AA 567 to 585 from mouse Kv3.1b (UniProt Id: P15388)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	242 003
Remarks	This control peptide consists of the synthetic peptide (aa 567 - 585 in mouse) 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 potassium (Kv) channels regulate many aspects of neuronal excitability like shaping of action potentials or modulating spike patterns.

Mammalian neurons express more than 20 different Kv subunits that can be subdivided into 12 families. Heteromeric assembly of 4 subunits and differential phosphorylation of Kv channels gives rise to a huge molecular and functional diversity.

The related proteins Kv3.1 - Kv3.4 form the Shaw-type subfamily. **Kv3.1b**, also known as **Kcnc 1**, is highly enriched in neurons that fire at high frequencies such as fast spiking (FS) interneurons of the cortex and hippocampus and neurons in the globus pallidus.

Selected General References

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