

Kv7.3

Cat.No. 368-0P; control peptide, 100 µg peptide (lyophilized)

Data Sheet

Reconstitution/	100 µg peptide, lyophilized. For reconstitution add 100 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Storage	Control peptides should also be stored at -20°C when still lyophilized!
Immunogen	Synthetic peptide corresponding to AA 858 to 873 from rat Kv7.3 (UniProt Id: O88944-1)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	368 003
Remarks	This control peptide consists of the synthetic peptide (aa 858-873 of rat Kv7.3) 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**

Five voltage gated potassium channels **Kv7**, encoded by the genes KCNQ 1-5, have been described in mammals so far. They are integral membrane proteins and show distinct distribution patterns. Kv7.2, **Kv7.3** and Kv7.5 are widely expressed in different brain regions whereas Kv7.1 and Kv7.4 show more restricted expression profiles.

Kv7.3 forms the M channel with either Kv7.2 or Kv7.5. This ion channel is a slowly activating and deactivating potassium channel that plays a critical role in the regulation of neuronal excitability.

Selected General References

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