

CLC 3

Cat.No. 252-0P; control protein, 100 µg protein (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg protein, lyophilized. For reconstitution add 100 µl H ₂ O to get a 1mg/ml solution in TBS. Then aliquot and store at -20°C until use.
Immunogen	Recombinant protein corresponding to AA 558 to 689 from mouse CLC3 (UniProt Id: P51791)
Recommended dilution	Optimal concentrations should be determined by the end-user.
matching antibodies	252 003
Remarks	This control protein consists of the recombinant protein (aa 558-689 of mouse CLC 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 protein 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

The **CLC 3** chloride channel, also referred to as **CLCN 3**, belongs to the voltage-gated chloride channels and is ubiquitously expressed throughout the brain and other tissues. Two splice variants of the protein have been described. CLC 3 resides on intracellular trafficking vesicles including synaptic vesicles. It mediates the exchange of chloride ions against protons. In contrast to the translocation of glutamate into synaptic vesicles, the VGAT mediated transport of GABA requires CLC 3. It has been postulated that CLC 3 provides chloride ions as charge balance during the acidification of the vesicle lumen by proton pumping of the V-ATPase.

Selected General References

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