

KCC 2

Cat.No. 393 004; Polyclonal Guinea pig antibody, 100 µl antiserum (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µl antiserum, lyophilized. For reconstitution add 100 µl H ₂ O, then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 (AP staining) IP: not tested yet ICC: not tested yet IHC: 1 : 500 up to 1 : 1000 IHC-P/FFPE: 1 : 500
Immunogen	Recombinant protein corresponding to AA 932 to 1043 from rat KCC2 (UniProt Id: Q63633)
Reactivity	Reacts with: mouse, rat (Q63633). Other species not tested yet.
Specificity	Recognizes KCC 2a and KCC 2b.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

KCC 2 is a potassium-chloride co-transporter that is exclusively expressed in neurons of the central nervous system. The electroneutral potassium-chloride co-transport occurs under isotonic conditions, but is activated 20-fold by cell swelling. KCC 2 is important for Cl⁻ homeostasis in neurons. Two isoforms, KCC 2a and KCC 2b, have been described, so far.

Selected General References

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Current view on the functional regulation of the neuronal K(+)-Cl(-) cotransporter KCC2.
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Role of the neuronal K-Cl co-transporter KCC2 in inhibitory and excitatory neurotransmission.
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