

CLC-KA Polyclonal Antibody

Catalog # AP69146

Product Information

Application	WB
Primary Accession	P51800
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	75285

Additional Information

Gene ID	1187
Other Names	CLCNKA; Chloride channel protein CLC-Ka; Chloride channel Ka; CLC-K1
Dilution	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20°C

Protein Information

Name	CLCNKA {ECO:0000303 PubMed:18310267, ECO:0000312 HGNC:HGNC:2026}
Function	Anion-selective channel permeable to small monovalent anions with ion selectivity for chloride > bromide > nitrate > iodide (PubMed: 11734858 , PubMed: 12111250). Forms a homodimeric channel where each subunit has its own ion conduction pathway. May conduct double-barreled currents controlled by two types of gates, two fast gates that control each subunit independently and a slow common gate that opens and shuts off both subunits simultaneously (PubMed: 11734858 , PubMed: 12111250 , PubMed: 18310267 , PubMed: 18776122 , PubMed: 19646679 , PubMed: 20538786). Assembles with the regulatory subunit BSND/Barttin for sorting at the basolateral plasma membrane domain and functional switch to the ion conducting state. CLCNKA:BSND channels display mostly a linear current-voltage relationship with fast gating at negative potentials (PubMed: 11734858 , PubMed: 12111250 , PubMed: 18310267 , PubMed: 18776122 , PubMed: 20538786). Mediates transepithelial chloride transport from the lumen to interstitial compartment along the thin ascending limb of Henle's loop, contributing to generation of hypertonic medullary interstitium as a countercurrent system to achieve urine

concentration (By similarity) (PubMed:[15044642](#)). Conducts chloride currents in the stria vascularis of the inner ear to establish the endocochlear potential necessary for normal hearing (PubMed:[15044642](#), PubMed:[18310267](#), PubMed:[19646679](#)).

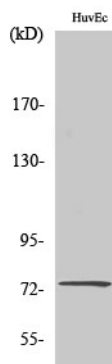
Cellular Location

Basolateral cell membrane {ECO:0000250|UniProtKB:Q9WUB7}; Multi-pass membrane protein

Background

Voltage-gated chloride channel. Chloride channels have several functions including the regulation of cell volume; membrane potential stabilization, signal transduction and transepithelial transport. May be important in urinary concentrating mechanisms.

Images



Western Blot analysis of various cells using CLC-KA Polyclonal Antibody

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