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CLC-KA Polyclonal Antibody

Catalog # AP69146

Product Information

Application	WB, E
Primary Accession	P51800
Reactivity	Human, Rat, Mouse
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. E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

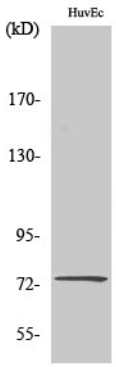
Name	CLCNKA {ECO:0000303|PubMed:18310267, ECO:0000312|HGNC:HGNC:2026}
Function	Anion-selective channel permeable to small monovalent anions with ion selectivity for chloride > bromide > nitrate > iodide (PubMed:11734858, PubMed:12111250). Forms a homodimeric channel where each subunit has its own ion 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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.