Recombinant ClC-2 Monoclonal Antibody

catalog number: **AN301722L**

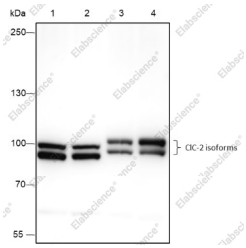
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Mouse;Rat
Immunogen	Recombinant human ClC-2 fragment
Host	Rabbit
Isotype	Rabbit IgG
Clone	C121344
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution
WB	1:500-1:1000
IHC	1:50-1:100

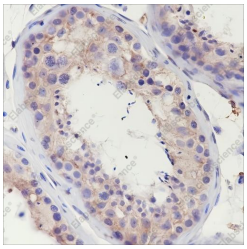
Data



Western Blot with ClC-2 Monoclonal Antibody at dilution of 1:1000. Lane 1: HeLa, Lane 2: HT-29, Lane 3: Rat kidney, Lane 4: Mouse kidney

Observed-MW:94/99 kDa

Calculated-MW:99 kDa



Immunohistochemistry of paraffin-embedded Human testis using ClC-2 Monoclonal Antibody at dilution of 1:100.

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

ClC-2 (chloride channel protein 2) is a transmembrane protein and functions as a voltage-gated chloride channel. Chloride channels have several functions including the regulation of cell volume, membrane potential stabilization, signal transduction and transepithelial transport. ClC-2 is highly expressed in adrenal gland and involved in the regulation of aldosterone production. The opening of CLCN2 channels at hyperpolarized membrane potentials in the glomerulosa causes cell membrane depolarization, activation of voltage-gated Ca2+ channels and increased expression of aldosterone synthase, the rate-limiting enzyme for aldosterone biosynthesis. Defects in this gene may be a cause of certain epilepsies.

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