

## Recombinant CIC-2 Monoclonal Antibody

catalog number: **AN301722L**

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

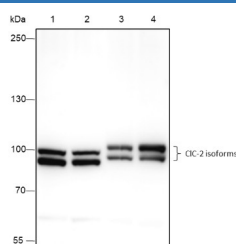
### Description

<b>Reactivity</b>	Human;Rat;Mouse
<b>Immunogen</b>	Recombinant human CIC-2 fragment
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG, $\kappa$
<b>Clone</b>	A430
<b>Purification</b>	Protein A purified
<b>Buffer</b>	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

### Applications Recommended Dilution

<b>WB</b>	1:500-1:1000
<b>IHC</b>	1:50-1:100

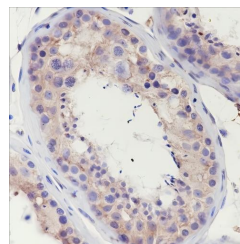
### Data



Western Blot with CIC-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 CIC-2 Monoclonal Antibody at dilution of 1:100.

### Preparation & Storage

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

### Background

CIC-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. CIC-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  $\text{Ca}^{2+}$  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.

### For Research Use Only