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Molecular Tools for the Life Science Community

## Certificate of Analysis

# Anti-CLC-3 (Clcn3)

**Product #:** ACL-001  
**Current Lot #:** AN-06  
**Host:** Rabbit.  
**Type:** Polyclonal.

**Epitope:** GST fusion protein with residues 592-661 of rat CLC-3  
(Accession [P51792](#)).

**Epitope location:** Intracellular, near the C-terminus.

**Homology with other species:** Mouse - identical; human, rabbit, guinea pig - 69/70 residues identical; *Xenopus laevis* - 61/70 residues identical.

**Homology with related proteins:** rat CLC-4 - 46/70 residues identical; rat CLC-5 - 49/70 residues identical.

**Reactivity Confirmed:** Rat.

**Identity of a fusion protein:** Confirmed by DNA sequence and SDS-PAGE.

**Purity:** The serum was affinity purified on immobilized CLC-3-His.

**Sample Sizes:** 50  $\mu$ l or 0.2 ml after reconstitution of the lyophilized powder.

**Storage before Reconstitution:** Lyophilized powder can be stored intact at room temperature for several weeks. For longer periods, it should be stored at -20°C.

**Reconstitution:** 50  $\mu$ l or 0.2 ml deionized water, depending on the sample size.

**Antibody Concentration after Reconstitution:** 0.8 mg/ml.

**Buffer after Reconstitution:** Phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 5% sucrose, 0.025% NaN<sub>3</sub>.

**Storage after Reconstitution:** The reconstituted solution can be stored at 4°C for up to 2 weeks. For longer periods, small aliquots should be stored at -20°C or below. Avoid multiple freezing and thawing. The further dilutions should be made using a carrier protein such as BSA (1%). Centrifuge **all** antibody preparations before use (10000  $\times$  g 5 min).

**Control Antigen Included.**

**Control Antigen Storage before Reconstitution:** Lyophilized powder can be stored intact at room temperature for several weeks. For longer periods, it should be stored at -20°C.

**Control Antigen Reconstitution:** 100  $\mu$ l PBS.

**Control Antigen Storage after Reconstitution:** -20 °C.

**Preadsorption Control:** 3  $\mu$ g fusion protein per 1  $\mu$ g antibody.

**Positive control in Western blotting:** 20 ng fusion protein.

**Standard Quality Control of Each Lot:** Western blotting.

**Applications:**

**Western Blotting:** Rat brain membranes (1:200-1:300)

**Immunohistochemistry/immunocytochemistry.**<sup>3,4,6</sup>

**Inhibition of the channel activity.**<sup>5</sup>

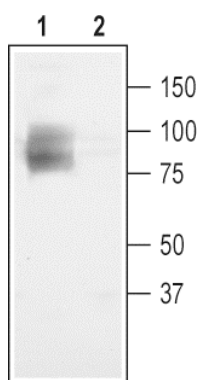
**For research purposes only, not for human use.**

**Last Update:** March 9, 2009.

**References using this antibody:**

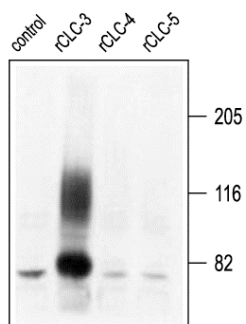
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Western blotting of rat brain membranes.

1. **Anti-CLC-3 antibody (#ACL-001)**(1:200)
2. Anti-CLC-3, preincubated with the control antigen.



Western blotting of membranes from *Xenopus* oocytes, expressing CLC-3, CLC-4, and CLC-5, using **Anti-CLC-3 antibody (#ACL-001)**.  
(Kindly provided by Prof. Jordi Ehrenfeld, University of Nice).