Datasheet for ABIN1027722

# anti-CLCN3 antibody (AA 98-115)

3 Images

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## Overview

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|---|---|
| Quantity: | 100 µg |
| Target: | CLCN3 |
| Binding Specificity: | AA 98-115 |
| Reactivity: | Rat |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC), Immunofluorescence (IF) |

## Product Details

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|---|---|
| Immunogen: | Synthetic peptide amino acids 98-115 (cytoplasmic N-terminus) of rat Clcn3 |
| Clone: | S258-5 |
| Isotype: | IgG1 |
| Specificity: | Detects ~90 kDa. Does not cross-react with Clcn4 or Clcn5 (based on KO validation results). |
| Cross-Reactivity: | Human, Mouse, Rat |
| Purification: | Protein G Purified |

## Target Details

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|---|---|
| Target: | CLCN3 |
| Alternative Name: | ClCN3 (CLCN3 Products) |

## Target Details

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|---|---|
| Background: | Clcn3 mediates the exchange of chloride ions against protons, and functions as an antiporter and contributes to the acidification of the endosome and synaptic vesicle lumen, and may thereby affect vesicle trafficking and exocytosis. It may play an important role in neuronal cell function through regulation of membrane excitability by protein kinase C. It could also help neuronal cells to establish short-term memory. |
| Gene ID: | 84360 |
| NCBI Accession: | NP_445815 |
| UniProt: | P51792 |

## Application Details

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| Application Notes: | • WB (1:1000)<br>• IHC (1:1000)<br>• ICC/IF (1:100)<br>• optimal dilutions for assays should be determined by the user. |
| Comment: | 1 µg/ml of ABIN1027722 was sufficient for detection of Clcn3 in 20 µg of rat brain membrane lysate and assayed by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody. |
| Restrictions: | For Research Use only |

## Handling

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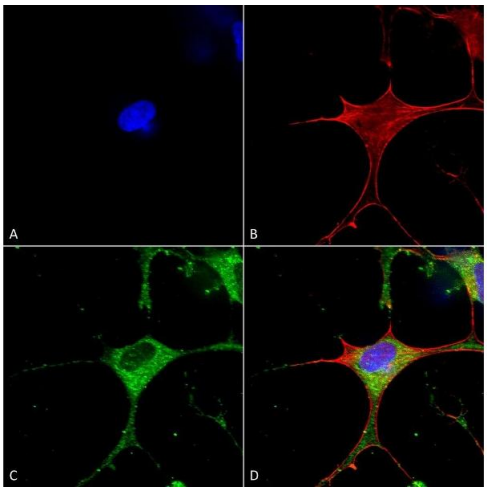
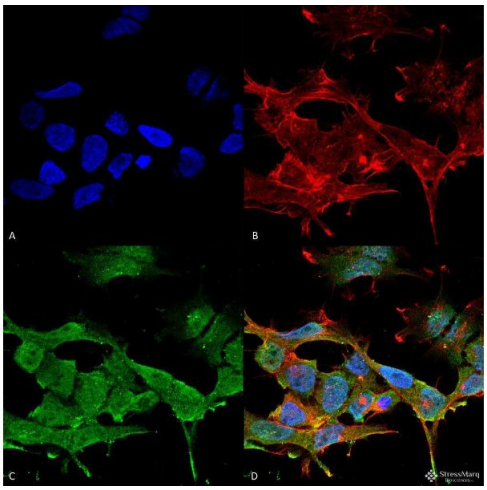
| Format: | Liquid |
| Concentration: | 1 mg/mL |
| Buffer: | PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C |
| Storage Comment: | -20°C |



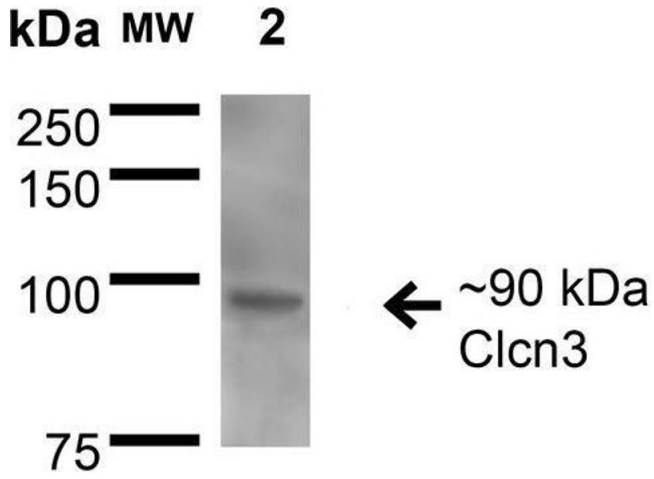

## Immunocytochemistry

**Image 1.** Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Clcn3 Monoclonal Antibody, Clone S258-5 (ABIN1027722). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-Clcn3 Monoclonal Antibody (ABIN1027722) at 1:50 for overnight at 4 °C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain at 1:800, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) Clcn3 Antibody (D) Composite.




## Immunofluorescence (fixed cells)

**Image 2.** Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Clcn3 Monoclonal Antibody, Clone S258-5 . Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Clcn3 Monoclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Membrane, Endosome, Endosome membrane, Cytoplasmic Vesicle, Secretory Vesicle Membrane. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) Clcn3 Antibody (D) Composite.




**Western Blotting**

**Image 3.** Western Blot analysis of Rat Brain Membrane showing detection of ~90 kDa Clcn3 protein using Mouse Anti-Clcn3 Monoclonal Antibody, Clone S258-5 . Lane 1: Molecular Weight Ladder. Lane 2: Rat Brain Membrane. Load: 15 µg. Block: 2% BSA and 2% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-Clcn3 Monoclonal Antibody at 1:200 for 16 hours at 4°C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:1000 for 1 hour RT. Color Development: ECL solution for 6 min in RT. Predicted/Observed Size: ~90 kDa.