

**Clcn3 Antibody**  
**CICN3 Antibody, Clone S258-5**  
**Catalog # ASM10242**

**Specification**

---

**Clcn3 Antibody - Product Information**

Application	<b>ICC/IF, WB</b>
Primary Accession	<a href="#">P51792</a>
Other Accession	<a href="#">NP_445815.2</a>
Host	<b>Mouse</b>
Isotype	<b>IgG1</b>
Reactivity	<b>Human, Mouse, Rat</b>
Clonality	<b>Monoclonal</b>

**Description**

Mouse Anti-Rat Clcn3 Monoclonal IgG1

**Target/Specificity**

Detects ~90kDa. Does not cross-react with Clcn4 or Clcn5 (based on KO validation results).

**Other Names**

CIC3 Antibody, CLC3 Antibody, CLCN 3 Antibody, Chloride channel 3 Antibody, Chloride channel protein 3 Antibody, Chloride channel Antibody, voltage-sensitive 3 Antibody, Chloride transporter CIC 3 Antibody, DKFZp564I0463 Antibody, H(+)/Cl(-) exchange transporter 3 Antibody, Chloride transporter CIC-3 Antibody, CIC-3 Antibody, H(+)/Cl(-) exchange transporter 3 Antibody

**Immunogen**

Synthetic peptide amino acids 98-115 (cytoplasmic N-terminus) of rat Clcn3

**Purification**

Protein G Purified

Storage **-20°C**

**Storage Buffer**

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Shipping Temperature **Blue Ice or 4°C**

**Certificate of Analysis**

1 µg/ml of SMC-408 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.

**Cellular Localization**

Membrane | Endosome | Endosome membrane | Cytoplasmic Vesicle | Secretory Vesicle Membrane

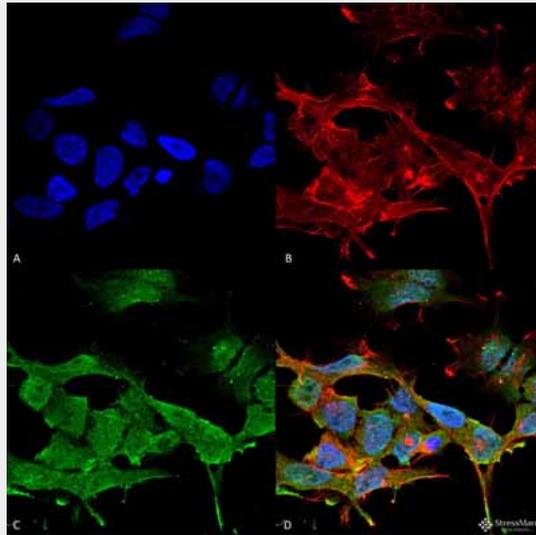
**Clcn3 Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

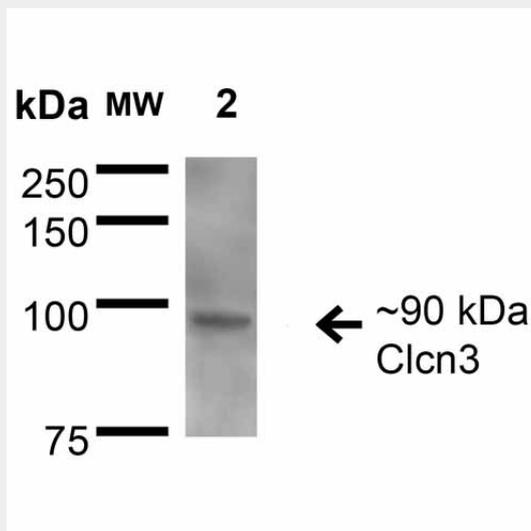
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Clcn3 Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Clcn3 Monoclonal Antibody, Clone S258-5 (ASM10242). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Clcn3 Monoclonal Antibody (ASM10242) 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 Blot analysis of Rat Brain Membrane showing detection of ~90 kDa Clcn3 protein using Mouse Anti-Clcn3 Monoclonal Antibody, Clone S258-5 (ASM10242). 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 (ASM10242) 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.

### **Clcn3 Antibody - 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.

### **Clcn3 Antibody - References**

1. [www.phosphosite.org/proteinAction.do?id=5088&showAllSites=true](http://www.phosphosite.org/proteinAction.do?id=5088&showAllSites=true)