

Anti- Clcn3

Catalog# SMC-408D

Size: 100µg

PO Box 55036, Cadboro Bay
3825 Cadboro Bay Road,
Victoria, BC, V8N 4G0, Canada

This product is for *in vitro* research use only and is not intended for use in humans or animals

StressMarq

Biosciences Inc.

Orders • sales@stressmarq.com
Tel: • +1 250 294 9065
Fax: • +1 250 294 9025
Email • info@stressmarq.com
Web • www.stressmarq.com

Product	Mouse anti-Clcn3, monoclonal
Clone	S258-5
Immunogen	Synthetic peptide amino acids 98-115 (cytoplasmic N-terminus) of rat Clcn3
Host and Subclass	Mouse monoclonal, IgG ₁
Cited Applications	WB, IHC, ICC
Specificity	Detects ~90kDa. Does not cross-react with Clcn4 or Clcn5 (based on KO validation results)
Species cross-reactivity	Mouse, Human, Rat
Format	Protein G Purified. In PBS pH7.4, 50% glycerol and 0.09% sodium azide.
Concentration and working dilution	1mg/mL; WB: 1ug/mL; IHC/ICC: 0.1-1.0ug/mL (Perox), 1.0-10ug/mL (IF)
Storage and stability	-20°C; 1 year+; shipped on cold packs or ambient

Selected References

1. www.phosphosite.org/proteinAction.do?id=5088&showAllSites=true

Certificate of Analysis

1µg/mL of SMC-408 was sufficient for detection of Clcn3 in 20µg of rat brain membrane lysate and assayed by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary antibody.

Scientific 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.

Material Safety Data Sheet

Anti- Clcn3 (Monoclonal Antibody) SMC-408

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The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

Hazardous Ingredients

The physical, chemical and toxicological properties of these components have not been fully investigated. It is recommended that all laboratory personnel follow standard laboratory safety procedures when handling this product. Safety procedures should include wearing OSHA approved safety glasses, gloves and protective clothing. Direct physical contact with this product should be avoided.

<u>Known Hazardous Components</u>	<u>CAS Number</u>	<u>Percent</u>
Sodium Azide	26628-22-8	0.09

Physical Data

This product consists of mouse immunoglobulin in PBS containing 0.09% azide in 50% glycerol, shipped on gel packs. The physical properties of this product have not been investigated thoroughly.

Fire and Explosion Hazard and Reactivity Data

NOT APPLICABLE

Toxicological Properties

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

Preventative Measures

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

Spill and Leak Procedures

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

First Aid Measures

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.

Authorized: StressMarq Biosciences Inc.
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