

## Chloride Channel Protein 3 (Clcn3) Monoclonal Antibody

### **ORDERING INFORMATION**

**Catalog No.:** 11566 (clone S258-5)  
**Size:** 100ug in PBS, pH 7.4; 50% glycerol, 0.09% sodium azide. Purified by Protein G affinity chromatography.

### **BACKGROUND**

Ion channels are integral membrane proteins that help establish and control the small voltage gradient across the plasma membrane of living cells by allowing the flow of ions down their electrochemical gradient. Clcn3 mediates the exchange of chloride ions against protons and functions as an antiporter, contributing to the acidification of the endosome and synaptic vesicle lumen. It may play an important role in neuronal cell function through regulation of membrane excitability by protein kinase C.

### **SPECIFICATION SUMMARY**

**Antigen:** Synthetic peptide corresponding to aa 98-115 (cytoplasmic N-terminus) of rat Clcn3 (accession no. NP\_445815.2).

**Host Species:** Mouse

**Antibody Class:** IgG1

### **SPECIFICITY**

This antibody recognizes human, mouse, and rat Clcn3. It does not cross-react with Clcn4 or Clcn5.

### **APPLICATIONS**

*Immunoblotting:* use at 1-2ug/ml. A band of ~90kDa is detected.

*Immunohistochemistry:* use at 1-10ug/ml. These are recommended concentrations. User should determine optimal concentrations for their application.

*Positive control:* Rat brain membranes.

### **DILUTION INSTRUCTIONS**

Dilute in PBS or medium which is identical to that used in the assay system.

### **STORAGE AND STABILITY**

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freezing and thawing.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.*