**bs-6981R** **[ Primary Antibody ]**

# CLCN3 Rabbit pAb

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## DATASHEET

**Host:** Rabbit **Isotype:** IgG

**Clonality:** Polyclonal

**GeneID:** 1182 **SWISS:** P51790

**Target:** CLCN3

**Immunogen:** KLH conjugated synthetic peptide derived from human CLCN3/CLC-3: 81-180/818.

**Purification:** affinity purified by Protein A

**Concentration:** 1mg/ml

**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** Mediates the exchange of chloride ions against protons. Functions as antiporter and contributes to the acidification of the endosome and synaptic vesicle lumen, and may thereby affect vesicle trafficking and exocytosis. May play an important role in neuronal cell function through regulation of membrane excitability by protein kinase C. It could help neuronal cells to establish short-term memory.

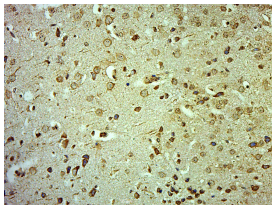
**Applications:** **IHC-P** (1:100-500)
**IHC-F** (1:100-500)
**IF** (1:50-200)

**Reactivity:** Mouse, Rat
(predicted: Human, Pig, Cow, Chicken, Dog, Horse)

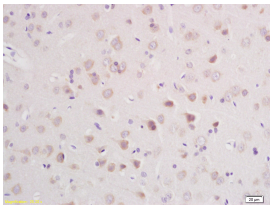
**Predicted MW.:** 91 kDa

**Subcellular Location:** Cell membrane ,Cytoplasm

## VALIDATION IMAGES



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CLCN3) Polyclonal Antibody, Unconjugated (bs-6981R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-CLCN3/CLC-3 Polyclonal Antibody, Unconjugated(bs-6981R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

## SELECTED CITATIONS


- **[IF=3.454]** Blair HC et al. Support of Bone Mineral Deposition by Regulation of pH.Am J Physiol Cell Physiol. 2018 Oct 1;315(4):C587-C597. IF ;Mouse. 30044661
- **[IF=2.5]** Irina L. Tourkova. et al. Chloride/proton antiporters ClC3 and ClC5 support bone formation in mice. Bone Reports. 2024 Apr;:101763 IF ;Mouse. 38666049
- **[IF=0]** Larrouture, Quitterie C., et al. "Chloride–hydrogen antiporters ClC‐3 and ClC‐5 drive osteoblast mineralization and regulate fine‐structure bone patterning in vitro." Physiological Reports 3.11 (2015): e12607. WB ;="Human". 26603451