

CLCN3 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58563**Specification****CLCN3 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P51790
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	91 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CLCN3/CLC-3
Epitope Specificity	81-180/818
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Isoform 1: Membrane; Multi-pass membrane protein. Early endosome membrane; Multi-pass membrane protein. Late endosome membrane; Multi-pass membrane protein. Cytoplasmic vesicle, secretory vesicle membrane; Multi-pass membrane protein. Isoform 2: Membrane; Multi-pass membrane protein. Early endosome membrane; Multi-pass membrane protein. Late endosome membrane; Multi-pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein. Belongs to the chloride channel (TC 2.A.49) family. CIC-3/CLCN3 subfamily. Contains 2 CBS domains.
SIMILARITY	Homo- or heterodimer. Isoform 2 interacts with GOPC, PDZK1 and SLC9A3R1/EBP50. N-glycosylated.
SUBUNIT	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Post-translational modifications	
Important Note	

Background Descriptions

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.

CLCN3 Polyclonal Antibody - Additional Information

Gene ID 1182

Other Names

H(+)/Cl(-) exchange transporter 3, Chloride channel protein 3, ClC-3, Chloride transporter CIC-3, CLCN3

Target/Specificity

Expressed primarily in tissues derived from neuroectoderm. Within the brain, its expression is particularly evident in the hippocampus, olfactory cortex, and olfactory bulb. Highly expressed in aortic and coronary vascular smooth muscle cells, and aortic endothelial cells. Also expressed in tracheal and alveolar epithelial cells, and intima and media of the pulmonary vessels. Expressed in bronchus and colon (at protein level).

Dilution

WB~~1:1000
IHC-P~~N/A
IHC-F~~N/A
IF~~1:50~200
E~~N/A

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

CLCN3 Polyclonal Antibody - Protein Information

Name CLCN3

Function

[Isoform 1]: Strongly outwardly rectifying, electrogenic H(+)/Cl(-)exchanger which mediates the exchange of chloride ions against protons (By similarity). The CLC channel family contains both chloride channels and proton-coupled anion transporters that exchange chloride or another anion for protons (PubMed:29845874). The presence of conserved gating glutamate residues is typical for family members that function as antiporters (PubMed:29845874).

Cellular Location

[Isoform 1]: Early endosome membrane; Multi-pass membrane protein. Late endosome membrane; Multi-pass membrane protein. Lysosome membrane {ECO:0000250|UniProtKB:P51791}; Multi-pass membrane protein. Cell membrane {ECO:0000250|UniProtKB:P51792}; Multi-pass membrane protein. Note=Isoform 1 is localized mainly in late endosomes.

Tissue Location

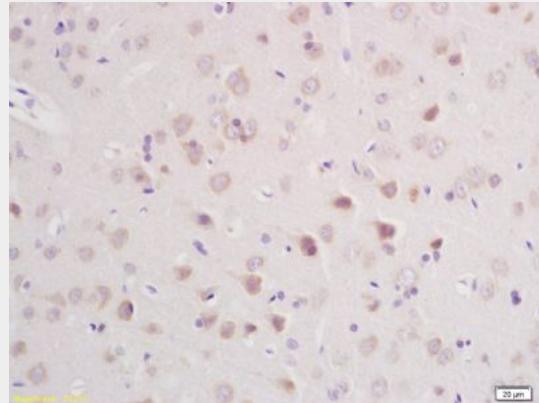
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CLCN3 Polyclonal Antibody - Protocols

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](#)

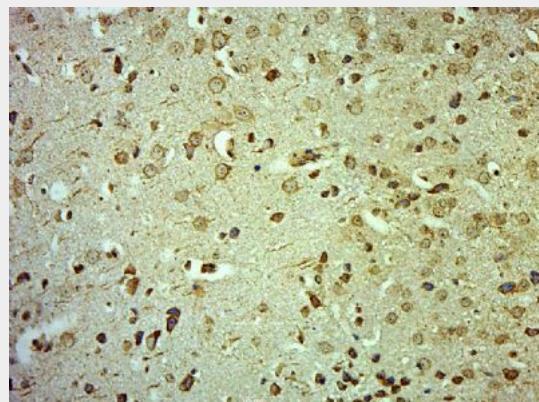
CLCN3 Polyclonal Antibody - Images



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



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.