

Anti-CLCN3 Antibody Picoband® Biotin Conjugated

Catalog Number: A05300-1-Biotin

About CLCN3

H⁺/Cl⁻ exchange transporter 3 is a protein that in humans is encoded by the CLCN3 gene. This gene encodes a member of the voltage-gated chloride channel (CIC) family. The encoded protein is present in all cell types and localized in plasma membranes and in intracellular vesicles. It is a multi-pass membrane protein which contains a CIC domain and two additional C-terminal CBS (cystathionine beta-synthase) domains. The CIC domain catalyzes the selective flow of Cl⁻ ions across cell membranes, and the CBS domain may have a regulatory function. This protein plays a role in both acidification and transmitter loading of GABAergic synaptic vesicles, and in smooth muscle cell activation and neointima formation. This protein is required for lysophosphatidic acid (LPA)-activated Cl⁻ current activity and fibroblast-to-myofibroblast differentiation. The protein activity is regulated by Ca²⁺/calmodulin-dependent protein kinase II (CaMKII) in glioma cells. Multiple alternatively spliced transcript variants encoding different isoforms have been identified.

Overview

Product Name	Anti-CLCN3 Antibody Picoband® Biotin Conjugated
Reactive Species	Human, Rat
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P51790

Technical Details

Immunogen	E.coli-derived human CLCN3 recombinant protein (Position: G293-R752). Human CLCN3 shares 99.6% amino acid (aa) sequence identity with mouse CLCN3.
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Biotin
Suggested Dilutions	The intended application should be selected according to the customer's experimental requirements.

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