

## Anti-CLCN3 Antibody Picoband® Cy3 Conjugated

Catalog Number: A05300-1-Cy3

### About CLCN3

H<sup>+</sup>/Cl<sup>-</sup> 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<sup>-</sup> 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<sup>-</sup> current activity and fibroblast-to-myofibroblast differentiation. The protein activity is regulated by Ca<sup>2+</sup>/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® Cy3 Conjugated
Reactive Species	Human, Rat
Application	Recommended applications are based on the parent unconjugated antibody (ELISA, Flow Cytometry, IF, IHC, ICC, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
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	Cy3 Excitation Wavelength: 554 nm Emission Wavelength: 568 nm

Suggested Dilutions

Optimal dilutions should be determined by end users.

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Anti-CLCN3 Antibody - Cy3

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