ARG45390
anti-CLCN3 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CLCN3
Tested Reactivity	Hu, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CLCN3
Species	Human
Immunogen	Recombinant protein containing to human CLCN3.
Conjugation	Un-conjugated
Alternate Names	CLCN3; Chloride Voltage-Gated Channel 3; ClC-3; CLC3; Chloride Channel, Voltage-Sensitive 3; H(+)/Cl(-) Exchange Transporter 3; Chloride Channel Protein 3; Chloride Transporter ClC-3; Chloride Channel 3; NEDHYBA; NEDSBA

Application Instructions

Application table

Application	Dilution
FACS	1 - 3 µg/10^6 cells
ICC/IF	5 µg/ml
IHC-P	2-5 µg/ml
WB	0.25-0.5 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: 170 kDa

Properties

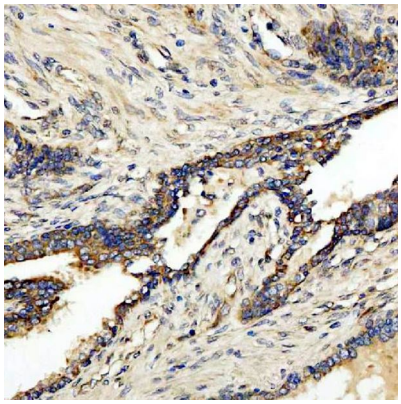
Form	Powder
Purification	Affinity purified
Buffer	0.2% Na2HPO4, 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

	before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

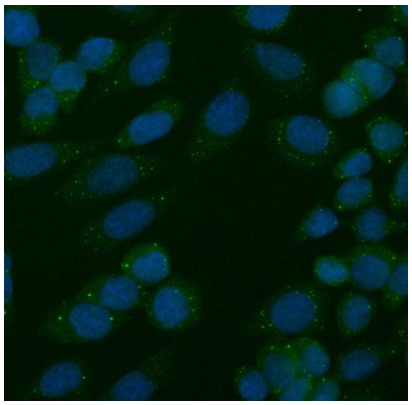
Gene Symbol	CLCN3
Gene Full Name	Chloride Voltage-Gated Channel 3
Background	This gene encodes a member of the voltage-gated chloride channel (ClC) family. The encoded protein is present in all cell types and localized in plasma membranes and in intracellular vesicles. It is a multi-pass membrane protein which contains a ClC domain and two additional C-terminal CBS (cystathionine beta-synthase) domains. The ClC 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 Ca(2+)/calmodulin-dependent protein kinase II (CaMKII) in glioma cells. Multiple alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2011]
Function	Isoform 1_x000D_ Strongly outwardly rectifying, electrogenic H+/Cl-exchanger which mediates the exchange of chloride ions against protons ._x000D_ The CLC channel family contains both chloride channels and proton-coupled anion transporters that exchange chloride or another anion for protons. Strongly outwardly rectifying, electrogenic H+/Cl-exchanger which mediates the exchange of chloride ions against protons. [UniProt]
Calculated Mw	91 kDa
PTM	Glycoprotein. [UniProt]
Cellular Localization	Cell membrane; Cell projection; Endosome; Golgi apparatus; Lysosome; Membrane. [UniProt]

Images



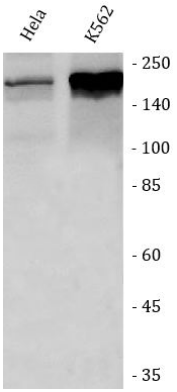
ARG45390 anti-CLCN3 antibody IHC-P image

Immunohistochemistry: Human prostatic cancer stained with ARG45390 anti-CLCN3 antibody at 2 µg/ml dilution.



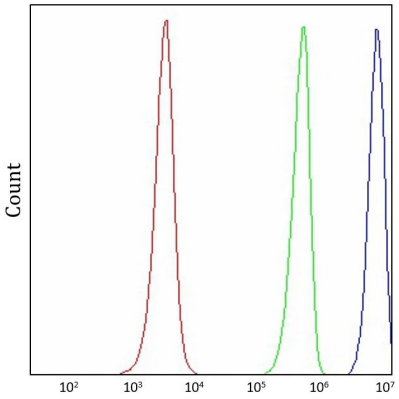
ARG45390 anti-CLCN3 antibody ICC/IF image

Immunofluorescence: SiHa stained with ARG45390 anti-CLCN3 antibody at 5 µg/ml dilution.



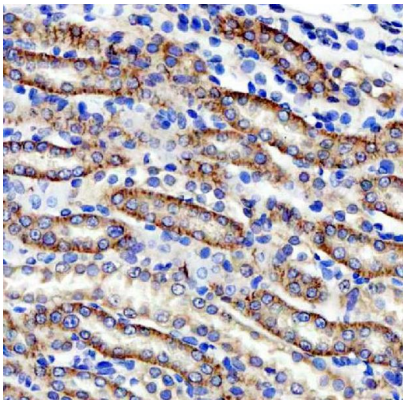
ARG45390 anti-CLCN3 antibody WB image

Western blot: Hela and K562 stained with ARG45390 anti-CLCN3 antibody at 0.5 µg/ml dilution.



ARG45390 anti-CLCN3 antibody FACS image

Flow Cytometry: JK stained with ARG45390 anti-CLCN3 antibody at 1 µg/10^6 cells dilution.



ARG45390 anti-CLCN3 antibody IHC-P image

Immunohistochemistry: Rat kidney stained with ARG45390 anti-CLCN3 antibody at 2 µg/ml dilution.