

Datasheet for 200-401-MP3S**CLIC1 Antibody****Overview**

Description:	Anti-CLIC1 (RABBIT) Antibody - 200-401-MP3S
Item No.:	200-401-MP3S
Size:	25 µL
Applications:	ELISA, IP, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	CLIC1 (Chloride Intracellular Channel 1) can insert into membranes and form chloride ion channels. Chloride channels are a diverse group of proteins that regulate fundamental cellular processes including stabilization of cell membrane potential, transepithelial transport, maintenance of intracellular pH, and regulation of cell volume. Chloride intracellular channel 1 is a member of the p64 family; the protein localizes principally to the cell nucleus and exhibits both nuclear and plasma membrane chloride ion channel activity. This channel activity depends on the pH. Membrane insertion seems to be redox-regulated and may occur only under oxidizing conditions. Involved in regulation of the cell cycle. Anti-CLIC1 is useful for researchers interested in Blackwater Fever and Penicilliosis diseases, along with Cancer, Neuroscience, and activation of cAMP-Dependent PKA.
Synonyms:	Rabbit Anti-CLIC1 Antibody, Chloride Intracellular Channel 1, Regulatory Nuclear Chloride Ion Channel Protein, Chloride Intracellular Channel Protein 1, Nuclear Chloride Ion Channel 27, Chloride Channel ABP, NCC27, HRNCC, G6, Nuclear Chloride Ion Channel Protein, RNCC Protein, P64CLCP
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CLIC1
Reactivity:	Human

Immunogen Type:	Recombinant Protein
Immunogen:	This protein-A purified antibody was prepared from whole rabbit serum produced by repeated immunizations with human CLIC1 recombinant protein.
Purity/Specificity:	This product was Protein A purified from monospecific antiserum by chromatography. This antibody is specific for human CLIC1. BLAST analysis was used to suggest cross-reactivity with CLIC1 from human sources based on 100% homology with the immunizing sequence, 98% homology with rat and mouse, and 97% homology with bovine and Oryctolagus cuniculus. Cross-reactivity with CLIC1 from other sources has not been determined.
Relevant Links:	• UniProtKB - O00299 • NCBI - NP_001274522.1 • GeneID - 1192

Application Details

Tested Applications:	ELISA, IP, WB
Application Note:	Anti-CLIC1 has been tested in ELISA, Western Blot, and Immunoprecipitation. Expect a band at ~27kda in western blot using appropriate tissues and lysates. Positive controls used in western blot include CLIC1 overexpressing HEK293, WM-115, and HL-60 whole cell lysates.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
IP:	User Optimized
WB:	1 µg/mL

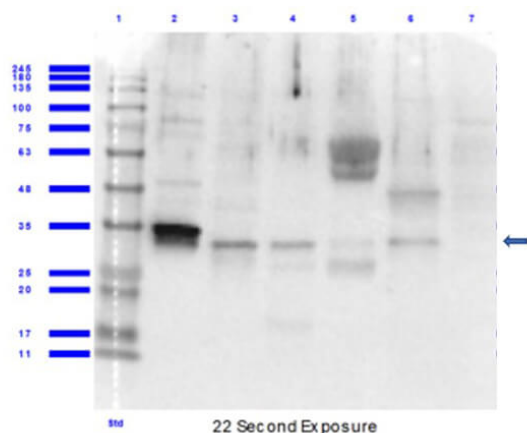
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.06 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Rabbit Anti-CLIC1 Antibody. Lane 1: Opal Prestained Molecular Weight Markers (p/n MB-210-0500). Lane 2: CLIC1 Overexpressed HEK293 Lysate (10µg) [+]. Lane 3: WM115 Lysate (p/n W09-001-GY8) (35µg) [+]. Lane 4: HL-60 Lysate (p/n W09-001-GK8) (35µg) [+]. Lane 5: Human Kidney Lysate (35µg) [+]. Lane 6: HeLa WCL Lysate (p/n W09-000-364) (35µg) [-]. Lane 7: Human Cerebellum Lysate (35µg) [-]. Primary Antibody: Anti-CLIC1 at 1µg/mL overnight at 2-8°C. Secondary Antibody: Goat Anti-Rabbit IgG HRP (p/n 611-103-122) at 1:70,000 for 1hr at RT. Block: BlockOut buffer (p/n MB-073). Expect MW: ~27kDa. Exposure: 22 sec.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.