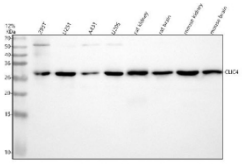
CLIC4 Antibody / Chloride intracellular channel protein 4 [clone 30C24] (FY12005)

Catalog No.	Formulation	Size
FY12005	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.	100 ul

Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	2-3 weeks
Species Reactivity	Human, Mouse, Rat
Format	Liquid
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	30C24
Purity	Affinity-chromatography
Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
UniProt	Q9Y696
Localization	Cytoplasmic, membranous
Applications	Western Blot : 1:500-1:2000 Immunohistochemistry : 1:50-1:200 Immunocytochemistry/Immunofluorescence : 1:50-1:200 Immunoprecipitation : 1:50 Flow Cytometry : 1:50
Limitations	This CLIC4 antibody is available for research use only.



Western blot analysis of CLIC4 using anti-CLIC4 antibody. Lane 1: human 293T whole cell lysates, Lane 2: human U251 whole cell lysates, Lane 3: human whole cell lysates, Lane 4: human U20S whole cell lysates, Lane 5: rat kidney tissue lysates, Lane 6: rat brain tissue lysates, Lane 7: mouse kidney tissue lysates, Lane 8: mouse brain tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CLIC4 antibody at 1:500 overnight at 4oC, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:500 for 1.5 hour at RT. The signal was developed using enhanced chemiluminescent. A specific band was detected for CLIC4 at approximately 29 kDa. The expected band size for CLIC4 is at 29 kDa.

Description

CLIC4 antibody targets chloride intracellular channel protein 4, a member of the CLIC family of proteins that function as intracellular chloride channels and signaling modulators. Unlike classical ion channels, CLIC4 can exist in both soluble and membrane-associated forms, transitioning between states to regulate chloride conductance. This protein is expressed across many tissues, including endothelial cells, immune cells, and epithelial cells, where it contributes to processes such as apoptosis, angiogenesis, and cellular stress responses.

Research using CLIC4 antibody has demonstrated its involvement in multiple pathological processes. CLIC4 is frequently upregulated during tissue remodeling and fibrotic diseases, where it influences transforming growth factor-beta (TGF-beta) signaling pathways. It has also been studied in the context of cancer, with evidence suggesting that CLIC4 contributes to tumor progression and metastasis through regulation of cell migration and invasion. In immune biology, CLIC4 has been implicated in the modulation of macrophage activation and inflammatory responses.

Validated clones for CLIC4 detection perform well in assays including western blot, immunohistochemistry, and immunofluorescence. Researchers use these antibodies to monitor subcellular localization, expression changes under stress conditions, and signaling outcomes tied to chloride channel activity. The versatility of CLIC4 in both membrane transport and cell signaling makes it a protein of interest in diverse fields of study.

NSJ Bioreagents offers this CLIC4 antibody to support investigations in cancer biology, fibrosis, and cellular signaling. Alternate names include chloride intracellular channel protein 4 antibody, CLIC4A antibody, MSTP046 antibody, HuH1 antibody, and DKFZp564F012 antibody.

Application Notes

Optimal dilution of the CLIC4 antibody should be determined by the researcher.

Immunogen

A synthesized peptide derived from human CLIC4 was used as the immunogen for the CLIC4 antibody.

Storage

Store the CLIC4 antibody at -20oC.