abcam

Product datasheet

Anti-CLIC1 antibody [EPR22907-50] ab229917

Recombinant RabMAb

★★★★★ 1 Abreviews 9 Images

Overview

Product name	Anti-CLIC1 antibody [EPR22907-50]
Description	Rabbit monoclonal [EPR22907-50] to CLIC1
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, ICC/IF, IP **Unsuitable for:** IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human fetal heart, kidney and spleen lysates, K-562, C2C12, U-87 MG and MDA-MB-231 whole cell lysates, Mouse kidney and spleen lysates, Rat spleen lysate, C6 and RAW 264.7 whole cell lysates; ICC/IF: C2C12 and K-562 cells; Flow Cyt (intra): K-562 and C2C12; IP: Mouse placenta lysate.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR22907-50
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab229917 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

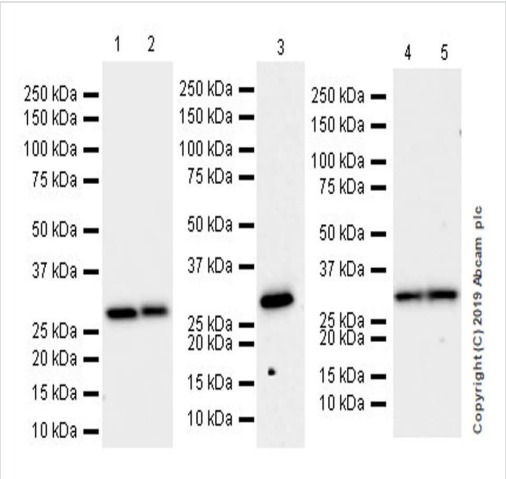
Application	Abreviews	Notes
Flow Cyt (Intra)		1/500.
WB		1/1000. Detects a band of approximately 27 kDa (predicted molecular weight: 27 kDa).
ICC/IF		1/100.
IP		1/30.

Application notes Is unsuitable for IHC-P.

Target

Function	Can insert into membranes and form chloride ion channels. Channel activity depends on the pH. Membrane insertion seems to be redox-regulated and may occur only under oxydizing conditions. Involved in regulation of the cell cycle.
Tissue specificity	Expression is prominent in heart, placenta, liver, kidney and pancreas.
Sequence similarities	Belongs to the chloride channel CLIC family. Contains 1 GST C-terminal domain.
Domain	Members of this family may change from a globular, soluble state to a state where the N-terminal domain is inserted into the membrane and functions as chloride channel. A conformation change of the N-terminal domain is thought to expose hydrophobic surfaces that trigger membrane insertion.
Post-translational modifications	Hydrogen peroxide treatment causes a conformation change, leading to dimerization and formation of an intramolecular disulfide bond between Cys-24 and Cys-59.
Cellular localization	Nucleus. Nucleus membrane. Cytoplasm. Cell membrane. Mostly in the nucleus including in the nuclear membrane. Small amount in the cytoplasm and the plasma membrane. Exists both as soluble cytoplasmic protein and as membrane protein with probably a single transmembrane domain.

Images



Western blot - Anti-CLIC1 antibody [EPR22907-50] (ab229917)

All lanes : Anti-CLIC1 antibody [EPR22907-50] (ab229917) at 1/1000 dilution

Lane 1 : Mouse kidney lysate
Lane 2 : Mouse spleen lysate
Lane 3 : Rat spleen lysate
Lane 4 : C6 (rat glial tumor glial cell) whole cell lysate
Lane 5 : RAW 264.7 (mouse abelson murine leukemia virus-induced tumor macrophage) whole cell lysate

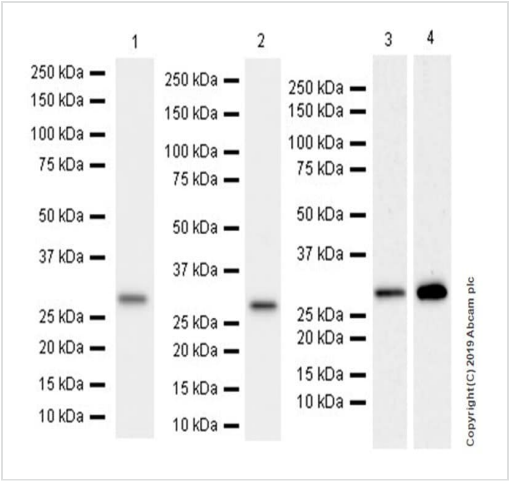
Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 27 kDa
Observed band size: 27 kDa

Exposure times.
Lanes 1-2: 15 seconds;
Lane 3: 3 minutes;
Lanes 4-5: 48 seconds.

Blocking buffer and concentration: 5% NFDM/TBST.



Western blot - Anti-CLIC1 antibody [EPR22907-50] (ab229917)

All lanes : Anti-CLIC1 antibody [EPR22907-50] (ab229917) at 1/1000 dilution

Lane 1 : K-562 (human chronic myelogenous leukemia lymphoblast) whole cell lysate
Lane 2 : C2C12 (mouse myoblasts myoblast) whole cell lysate
Lane 3 : U-87 MG (human glioblastoma-astrocytoma epithelial cell) whole cell lysate
Lane 4 : MDA-MB-231 (human breast adenocarcinoma epithelial cell) whole cell lysate

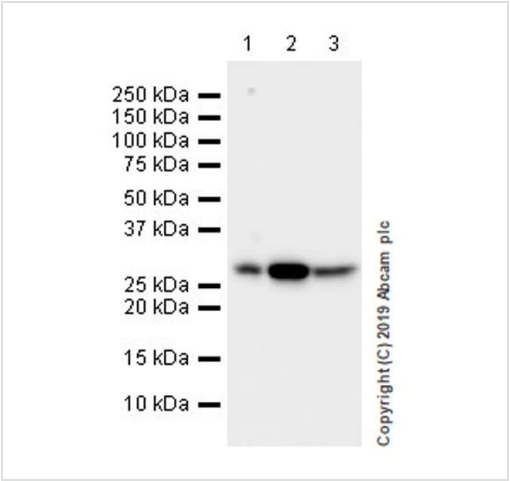
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 27 kDa
Observed band size: 27 kDa

Blocking/Diluting buffer and concentration: 5% NFDM/TBST

Exposure times.
Lane 1:26 seconds;
Lane 2:10 seconds;
Lanes 3-4: 3 minutes.



Western blot - Anti-CLIC1 antibody [EPR22907-50] (ab229917)

All lanes : Anti-CLIC1 antibody [EPR22907-50] (ab229917) at 1/1000 dilution

Lane 1 : Human fetal heart lysate
Lane 2 : Human fetal kidney lysate
Lane 3 : Human fetal spleen lysate

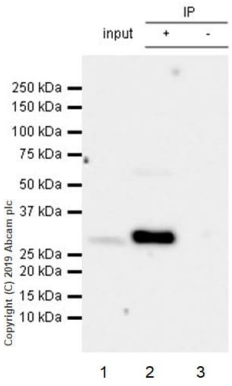
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : VeriBlot for IP Detection Reagent (HRP) (**ab131366**) at 1/1000 dilution

Predicted band size: 27 kDa
Observed band size: 27 kDa

Exposure time: 15 seconds

Blocking and dilution buffer: 5% NFDM/TBST.



Immunoprecipitation - Anti-CLIC1 antibody [EPR22907-50] (ab229917)

CLIC1 was immunoprecipitated from 0.35mg Mouse placenta lysate with ab229917 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab229917 at 1/1000 dilution (0.5 µg/ml). VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used as the secondary antibody at 1/5000 dilution.

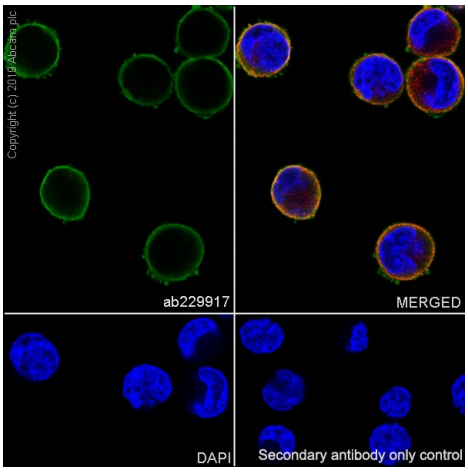
Lane 1: Mouse placenta lysate 10µg

Lane 2: ab229917 IP in Mouse placenta lysate

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab229917 in Mouse placenta lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

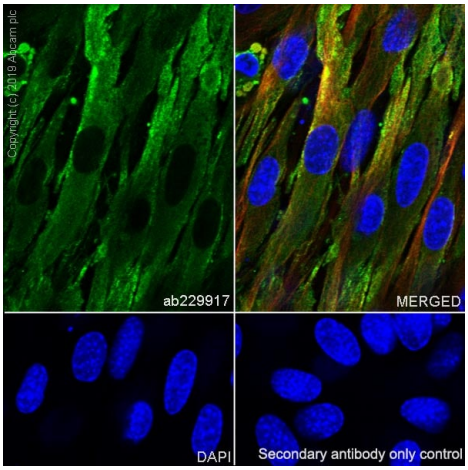
Exposure time: 30 seconds.



Immunocytochemistry/ Immunofluorescence - Anti-CLIC1 antibody [EPR22907-50] (ab229917)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized K562 (human chronic myelogenous leukemia lymphoblast) cells labelling CLIC1 with at 1/100 dilution, followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Confocal image showing membranous staining in K-562 cell line. **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

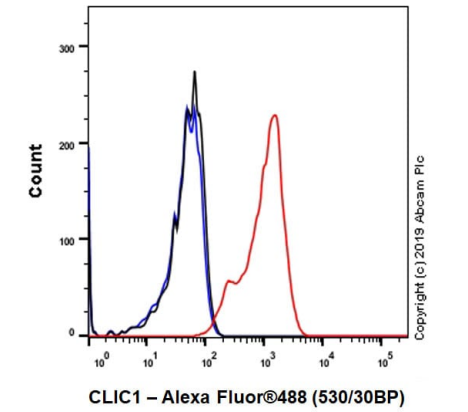
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-CLIC1 antibody [EPR22907-50] (ab229917)

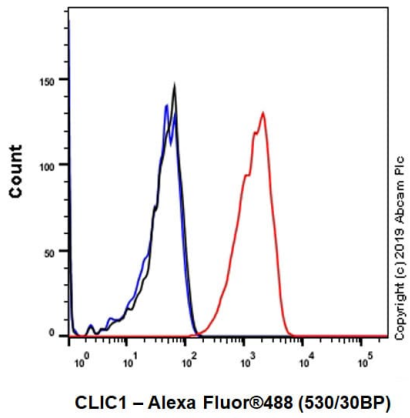
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized C2C12 (mouse myoblasts myoblast) cells labelling CLIC1 with at 1/100 dilution, followed by **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic and membranous staining in C2C12 cell line. **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is **ab150077** AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-CLIC1 antibody [EPR22907-50] (ab229917)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized K-562 (Human chronic myelogenous leukemia lymphoblast) cells labelling CLIC1 with ab229917 at 1/500 dilution (0.1ï¿½g) (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluorï¿½ 488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.



Flow Cytometry (Intracellular) - Anti-CLIC1 antibody [EPR22907-50] (ab229917)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized C2C12 (Mouse myoblasts myoblast) cells labelling CLIC1 with ab229917 at 1/500 dilution (0.1ï¿½g) (Red) compared with a Rabbit monoclonal IgG (**ab172730**) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluorï¿½488, **ab150077**) at 1/2000 dilution was used as the secondary antibody.

Anti-CLIC1 antibody [EPR22907-50] (ab229917)

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