abcam

ab229917

Anti-CLIC1 antibody [EPR22907-50]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR22907-50
Purification technique	Affinity purification Protein A
Concentration	0.509 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Mouse
Dilution info	1/30
Notes	-

Expected

Species	Rat, Human
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Mouse
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

Species	Human
Dilution info	1/1000
Notes	-

IHC-P

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Mouse
Dilution info	1/100
Notes	-

Species	Human
Dilution info	1/100
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	1/500
Notes	-

Species	Human
Dilution info	1/500
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Target data

See full target information CLIC1

Function	In the soluble state, catalyzes glutaredoxin-like thiol disulfide exchange reactions with reduced glutathione as electron donor. Reduces selenite and dehydroascorbate and may act as an antioxidant during oxidative stress response (PubMed:25581026, PubMed:37759794). Can insert into membranes and form voltage-dependent multi-ion conductive channels. Membrane insertion seems to

	be redox-regulated and may occur only under oxidizing conditions. Involved in regulation of the cell cycle.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
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 batch production

For more information, read more on recombinant antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

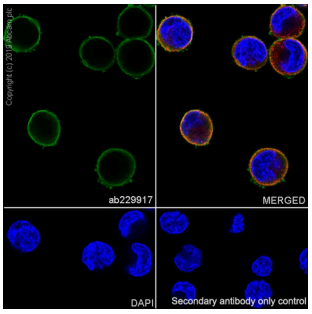
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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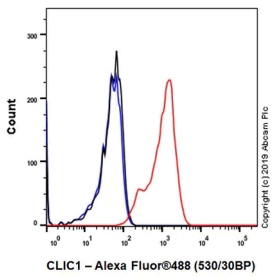
8 product images



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

CLIC1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-CLIC1 antibody

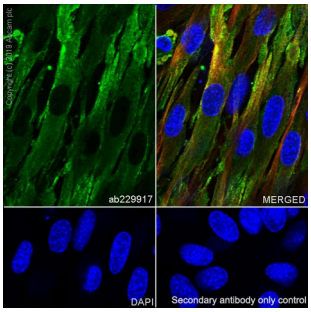
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized K562 (human chronic myelogenous leukemia lymphoblast) cells labelling CLIC1 with at 1/100 dilution, followed by ab150077 AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Confocal image 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.



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

CLIC1 Flow Cytometry (Intracellular) staining using rabbit Anti-CLIC1 antibody

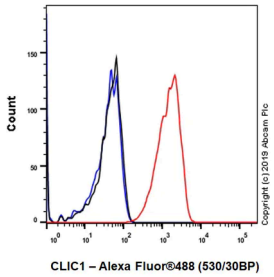
Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized K-562 (Human chronic myelogenous leukemia lymphoblast) cells labelling CLIC1 with ab229917 at 1/500 dilution (0.1ï¿½g) (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an 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.



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

CLIC1 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-CLIC1 antibody

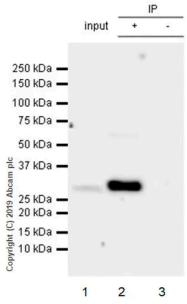
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized C2C12 (mouse myoblasts myoblast) cells labelling CLIC1 with at 1/100 dilution, followed by ab150077 AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic 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)

CLIC1 Flow Cytometry (Intracellular) staining using rabbit Anti-CLIC1 antibody

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¿½ 488, ab150077) at 1/2000 dilution was used as the secondary antibody.



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.

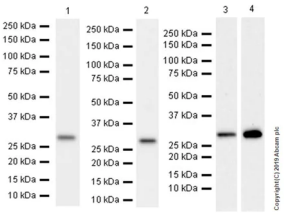
Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 30 seconds.

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

Predicted band size: 26 kDa

Observed band size: 27 kDa



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

Blocking/Diluting buffer and concentration: 5% NFDM/TBST
Exposure times.
Lane 1:26 seconds;
Lane 2:10 seconds;
Lanes 3-4: 3 minutes.

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

Lane 1:
K-562 (human chronic myelogenous leukemia lymphoblast) whole cell lysate at 20 µg

Lane 2:
C2C12 (mouse myoblasts myoblast) whole cell lysate at 20 µg

Lane 3:
U-87 MG (human glioblastoma-astrocytoma epithelial cell) whole cell lysate at 20 µg

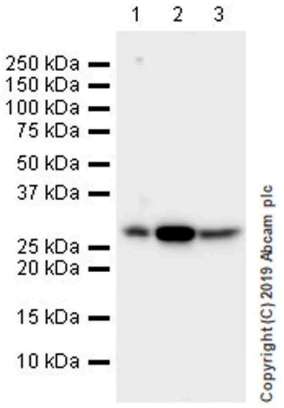
Lane 4:
MDA-MB-231 (human breast adenocarcinoma epithelial cell) whole cell lysate at 20 µg

Secondary

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

Predicted band size: 26 kDa

Observed band size: 27 kDa



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

CLIC1 Western blot staining using rabbit Anti-CLIC1 antibody

Blocking and dilution buffer: 5% NFDM/TBST.
All lanes:
Western blot - Anti-CLIC1 antibody [EPR22907-50] (ab229917) at 1/1000 dilution

Lane 1:
Human fetal heart lysate at 20 µg

Lane 2:
Human fetal kidney lysate at 20 µg

Lane 3:
Human fetal spleen lysate at 20 µg

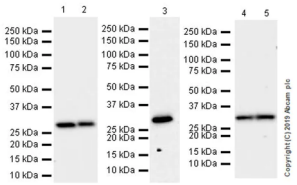
Secondary

All lanes:
Western blot - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/1000 dilution

Predicted band size: 26 kDa

Observed band size: 27 kDa

Exposure time: 15s



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

CLIC1 Western blot staining using rabbit Anti-CLIC1 antibody

Exposure times.
Lanes 1-2: 15 seconds;
Lane 3: 3 minutes;
Lanes 4-5: 48 seconds.
Blocking buffer and concentration: 5% NFDM/TBST.

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

Lane 1:
Mouse kidney lysate at 10 µg

Lane 2:
Mouse spleen lysate at 10 µg

Lane 3:
Rat spleen lysate at 10 µg

Lane 4:
C6 (rat glial tumor glial cell) whole cell lysate at 10 µg

Lane 5:
RAW 264.7 (mouse abelson murine leukemia virus-induced tumor macrophage) whole cell lysate at 10 µg

Secondary

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

Predicted band size: 26 kDa

Observed band size: 27 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.