

# CLIC1 (m): 293T Lysate: sc-119305

## BACKGROUND

Chloride intracellular channel 1 (CLIC1), also referred to as NCC27, is a member of the highly conserved family of chloride ion channels that function in both soluble and integral membrane forms. CLIC1 is a monomeric protein that contains a redox-active site similar to glutaredoxin; it functions as a anion-selective channel. CLIC1 forms a dimer when oxidized and is then able to form chloride ion channels in bilayers and vesicles, whereas a reducing environment prevents this from occurring. Insulin concentration also plays a role in CLIC1 regulation, and the hormone may cause a subnuclear relocalization of CLIC1. CLIC1 is associated with macrophage activation; a downregulation of CLIC1 function prevents TNF $\alpha$  release induced by  $\beta$ -Amyloid protein (A- $\beta$ ) stimulation. This suggests a role for CLIC1 in several neurodegenerative processes, such as Alzheimer's disease, a syndrome characterized by an accumulation of  $\beta$ -Amyloid.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: *Clc1* (mouse) mapping to 17 B1.

## PRODUCT

CLIC1 (m): 293T Lysate represents a lysate of mouse CLIC1 transfected 293T cells and is provided as 100  $\mu$ g protein in 200  $\mu$ l SDS-PAGE buffer.

## APPLICATIONS

CLIC1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive CLIC1 antibodies. Recommended use: 10-20  $\mu$ l per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

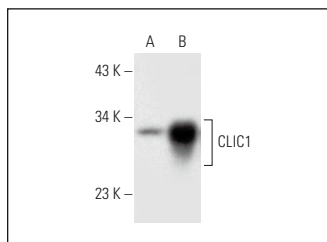
CLIC1 (B-5): sc-271051 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse CLIC1 expression in CLIC1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

## RECOMMENDED SUPPORT REAGENTS

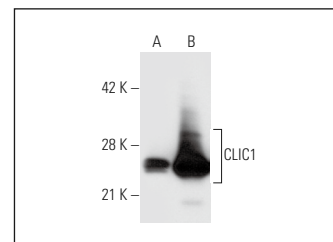
To ensure optimal results, the following support reagents are recommended:

1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

## DATA



CLIC1 (B-5): sc-271051. Western blot analysis of CLIC1 expression in non-transfected: sc-117752 (A) and mouse CLIC1 transfected: sc-119305 (B) 293T whole cell lysates.



CLIC1 (356.1): sc-81873. Western blot analysis of CLIC1 expression in non-transfected: sc-117752 (A) and mouse CLIC1 transfected: sc-119305 (B) 293T whole cell lysates.

## STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.