

CLIC1 / NCC27 Antibody (clone 2D4)
Mouse Monoclonal Antibody
Catalog # ALS13291**Specification**

CLIC1 / NCC27 Antibody (clone 2D4) - Product Information

Application	WB, IHC
Primary Accession	O00299
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	27kDa KDa

CLIC1 / NCC27 Antibody (clone 2D4) - Additional Information**Gene ID** 1192**Other Names**

Chloride intracellular channel protein 1, Chloride channel ABP, Nuclear chloride ion channel 27, NCC27, Regulatory nuclear chloride ion channel protein, hRNCC, CLIC1, G6, NCC27

Reconstitution & Storage

Store at -20°C. Aliquot to avoid freeze/thaw cycles.

Precautions

CLIC1 / NCC27 Antibody (clone 2D4) is for research use only and not for use in diagnostic or therapeutic procedures.

CLIC1 / NCC27 Antibody (clone 2D4) - Protein Information**Name** CLIC1 {ECO:0000303|PubMed:16339885, ECO:0000312|HGNC:HGNC:2062}**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.

Cellular Location

Nucleus. Nucleus membrane; Single-pass membrane protein. Cytoplasm. Cell membrane; Single-pass membrane protein. Endoplasmic reticulum {ECO:0000250|UniProtKB:Q6MG61}. Note=Mostly in the nucleus including in the nuclear membrane (PubMed:12681486, PubMed:9139710). Small amount in the cytoplasm and the plasma membrane (PubMed:9139710). Exists both as soluble cytoplasmic protein and as membrane protein with probably a single

transmembrane domain (PubMed:11551966, PubMed:11940526, PubMed:12681486, PubMed:14613939, PubMed:9139710). Might not be present in the nucleus of cardiac cells (By similarity) {ECO:0000250|UniProtKB:Q6MG61, ECO:0000269|PubMed:11551966, ECO:0000269|PubMed:11940526, ECO:0000269|PubMed:12681486, ECO:0000269|PubMed:14613939, ECO:0000269|PubMed:9139710}

Tissue Location

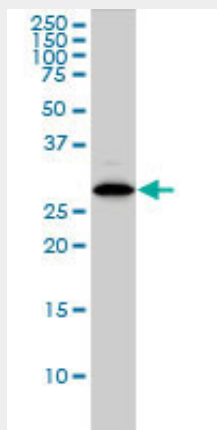
Expression is prominent in heart, placenta, liver, kidney and pancreas.

CLIC1 / NCC27 Antibody (clone 2D4) - Protocols

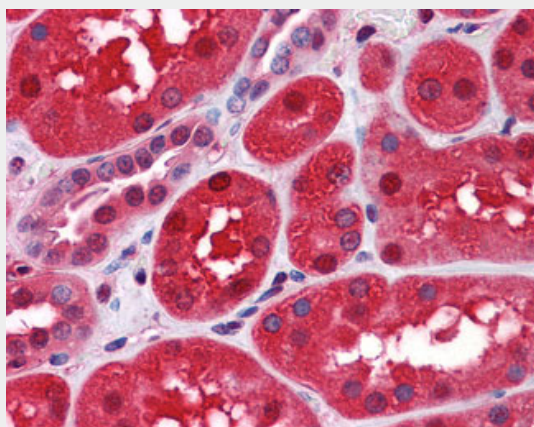
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CLIC1 / NCC27 Antibody (clone 2D4) - Images



CLIC1 monoclonal antibody, clone 2D4 Western blot of CLIC1 expression in HL-60.



Anti-CLIC1 antibody IHC of human kidney.

CLIC1 / NCC27 Antibody (clone 2D4) - Background

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 oxidizing conditions. Involved in regulation of the cell cycle.

CLIC1 / NCC27 Antibody (clone 2D4) - References

Valenzuela S.M., et al. J. Biol. Chem. 272:12575-12582(1997).
Noh Y.H., et al. Submitted (NOV-1997) to the EMBL/GenBank/DDBJ databases.
Chuang J.Z., et al. J. Neurosci. 19:2919-2928(1999).
Ribas G., et al. J. Immunol. 163:278-287(1999).
Halleck A., et al. Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.