

CLCC1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50622**Specification**

CLCC1 Antibody - Product Information

Application	WB
Primary Accession	Q96S66
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	62,56,47,40 KDa
Antigen Region	410-436

CLCC1 Antibody - Additional Information**Gene ID** 23155**Other Names**

Chloride channel CLIC-like protein 1, Mid-1-related chloride channel protein 1, CLCC1, KIAA0761, MCLC

Dilution

WB~~ 1:500

FormatRabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.**Storage Conditions**

-20°C

CLCC1 Antibody - Protein Information**Name** CLCC1 {ECO:0000303|PubMed:37142673, ECO:0000312|HGNC:HGNC:29675}**Function**

Anion-selective channel with Ca(2+)-dependent and voltage- independent gating. Permeable to small monovalent anions with selectivity for bromide > chloride > nitrate > fluoride (By similarity). Operates in the endoplasmic reticulum (ER) membrane where it mediates chloride efflux to compensate for the loss of positive charges from the ER lumen upon Ca(2+) release. Contributes to the maintenance of ER Ca(2+) pools and activation of unfolded protein response to prevent accumulation of misfolded proteins in the ER lumen. Particularly involved in ER homeostasis mechanisms underlying motor neurons and retinal photoreceptors survival (By similarity) (PubMed:25698737, PubMed:30157172, PubMed:37142673).

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Note=Within the endoplasmic reticulum (ER), localizes to the mitochondria-associated ER membrane, a zone of contact between the ER and mitochondrial membranes. Enriched in the rough ER. {ECO:0000250|UniProtKB:Q99LI2, ECO:0000269|PubMed:31653868}

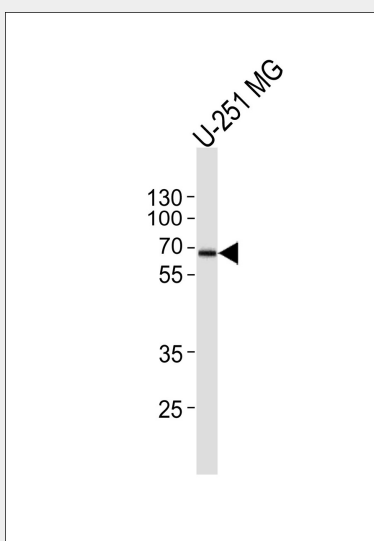
Tissue Location

Expressed in the retina of the eye, with extensive expression in the lamina cribrosa, optic nerve, ganglion cell layer, inner nuclear layer, outer nuclear layer and retinal pigment epithelium.

CLCC1 Antibody - 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](#)

CLCC1 Antibody - Images

Western blot analysis of lysate from U-251 MG cell line, using CLCC1 Antibody (AP50622). AP50622 was diluted at 1:1000. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35 µg.

CLCC1 Antibody - Background

Seems to act as a chloride ion channel (By similarity).

CLCC1 Antibody - References

Nagasawa M., et al. J. Biol. Chem. 276:20413-20418(2001).
Nagase T., et al. DNA Res. 5:277-286(1998).

Gregory S.G.,et al.Nature 441:315-321(2006).

Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Olsen J.V.,et al.Cell 127:635-648(2006).