CLCC1 Monoclonal antibody, PBS Only

Catalog Number:68853-7-PBS

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Basic Information

Catalog Number:
68853-7-PBS

Size:
100ug , Concentration: 1 mg/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG24682

GenBank Accession Number:
BC002939

GeneID (NCBI):
23155

UNIPROT ID:
Q96S66

Full Name:
chloride channel CLIC-like 1

Calculated MW:
551 aa, 62 kDa

Observed MW:
50-60 kDa

Purification Method:
Protein G purification

CloneNo.:
3C4B4

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human

Background Information

CLCC1, also known as MCLC, is a transmembrane protein that localizes to intracellular compartments, including endoplasmic reticulum (ER), and it functions as a chloride channel (PMID: 11279057). It has been shown that loss of CLCC1 results in ER Stress, misfolded protein accumulation, and neurodegeneration (PMID: 25698737). CLCC1 forms homomultimer in the ER membrane and is a pore-forming component of an anion channel. Studies found that disruption of ER ion homeostasis maintained by CLCC1 is one of the causes of neurodegenerative diseases, such as ALS (amyotrophic lateral sclerosis) (PMID: 37142673).
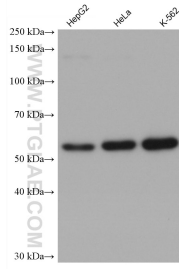
Storage
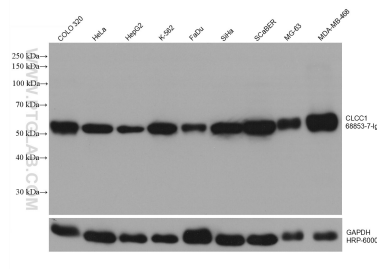
Storage:
Store at -80℃.
Storage Buffer:
PBS Only

Selected Validation Data

Various lysates were subjected to SDS PAGE followed by western blot with 68853-7-Ig (CLCC1 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68853-7-PBS in a different storage buffer formulation.

Various lysates were subjected to SDS PAGE followed by western blot with 68853-7-Ig (CLCC1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 68853-7-PBS in a different storage buffer formulation.