

CLCN2 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a full length recombinant CLCN2.****Catalog # AT1550a****Specification**

CLCN2 Antibody (monoclonal) (M01) - Product Information

Application	WB
Primary Accession	P51788
Other Accession	BC021578
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	98535

CLCN2 Antibody (monoclonal) (M01) - Additional Information**Gene ID** 1181**Other Names**

Chloride channel protein 2, CIC-2, CLCN2

Target/Specificity

CLCN2 (AAH21578.1, 38 a.a. ~ 387 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

CLCN2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

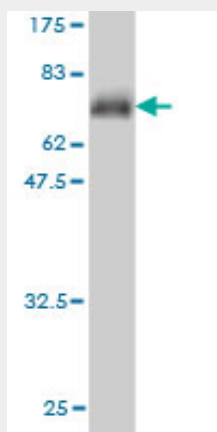
CLCN2 Antibody (monoclonal) (M01) - Protocols

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

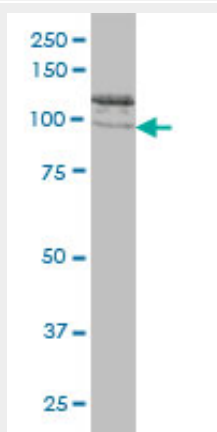
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

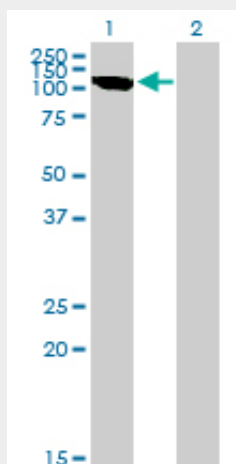
CLCN2 Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (64.24 KDa) .

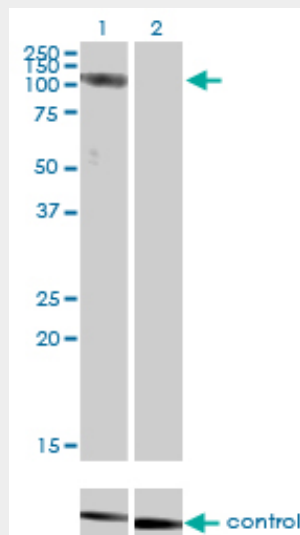


CLCN2 monoclonal antibody (M01), clone 3E1 Western Blot analysis of CLCN2 expression in HeLa S3 NE ((Cat # AT1550a)



Western Blot analysis of CLCN2 expression in transfected 293T cell line by CLCN2 monoclonal antibody (M01), clone 3E1.

Lane 1: CLCN2 transfected lysate(96.8 KDa).
Lane 2: Non-transfected lysate.



Western blot analysis of CLCN2 over-expressed 293 cell line, cotransfected with CLCN2 Validated Chimera RNAi (Cat # AT1550a)

CLCN2 Antibody (monoclonal) (M01) - Background

The transmembrane protein encoded by this gene is a voltage-gated chloride channel that maintains chloride ion homeostasis in various cells. Defects in this gene may be a cause of certain epilepsies. Four transcript variants encoding different isoforms have been found for this gene.

CLCN2 Antibody (monoclonal) (M01) - References

Analysis of CLCN2 as candidate gene for megalencephalic leukoencephalopathy with subcortical cysts. Scheper GC, et al. Genet Test Mol Biomarkers, 2010 Apr. PMID 20187760. Rapid recycling of CIC-2 chloride channels between plasma membrane and endosomes: role of a tyrosine endocytosis motif in surface retrieval. Cornejo I, et al. J Cell Physiol, 2009 Dec. PMID 19711355. CLCN2 variants in idiopathic generalized epilepsy. Kleefuss-Lie A, et al. Nat Genet, 2009 Sep. PMID 19710712. Isolation and characterization of a high affinity peptide inhibitor of CIC-2 chloride channels. Thompson CH, et al. J Biol Chem, 2009 Sep 18. PMID 19574231. PIKfyve-dependent regulation of the Cl- channel CIC-2. Klaus F, et al. Biochem Biophys Res Commun, 2009 Apr 10. PMID 19232516.

CLCN2 Antibody (monoclonal) (M01) - Citations

- [A multiplex high-throughput gene expression assay to simultaneously detect disease and functional markers in induced pluripotent stem cell-derived retinal pigment epithelium.](#)