10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CLCN2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant CLCN2.
Catalog # AT1550a

Product Information

Application	WB
Primary Accession	P51788
Other Accession	BC021578
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	30
Calculated MW	98535

Additional Information

Gene ID	1181
Other Names	Chloride channel protein 2, ClC-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.

Background

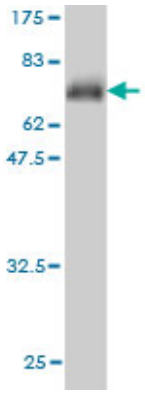
The transmembrane protein encoded by this gene is a voltage-gated chloride channel that maintains chloride ion homeostasis in various cells. Defects in this gene may be a cause of certain epilepsies. Four transcript variants encoding different isoforms have been found for this gene.

References

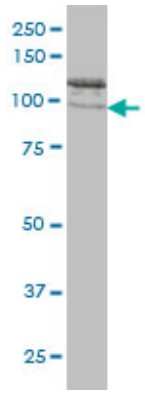
Analysis of CLCN2 as candidate gene for megalencephalic leukoencephalopathy with subcortical cysts. Scheper GC, et al. Genet Test Mol Biomarkers, 2010 Apr. PMID 20187760. Rapid recycling of ClC-2 chloride channels between plasma membrane and endosomes: role of a tyrosine endocytosis motif in surface 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 ClC-2 chloride channels. Thompson CH, et al. J Biol Chem, 2009 Sep 18. PMID 19574231. PIKfyve-dependent regulation of the Cl- channel ClC-2. Klaus F, et al. Biochem Biophys Res Commun, 2009 Apr 10. PMID 19232516.

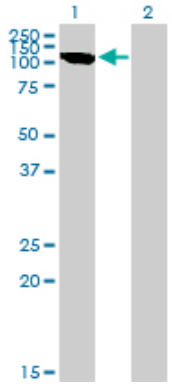
Images



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

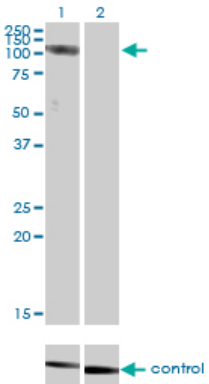


CLCN2 monoclonal antibody (M01), clone 3E1 Western Blot analysis of CLCN2 expression in Hela S3 NE ((Cat # AT1550a)



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)

Citations

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.