CLCN2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CLCN2, Polyclonal Antibody
Full Product Name	CLCN2 Conjugated Antibody
Product Gene Name	anti-CLCN2 antibody
Product Synonym Names	CLC2; ECA2; ECA3; EGI3; EGMA; EJM6; EJM8; CIC-2; EGI11; LKPAT; clC-2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous level of total CLCN2 antibody.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	95,399 Da
OMIM	phenotype 615651
3D Structure	ModBase 3D Structure for P51788
Immunogen	Recombinant protein of human CLCN2.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-CLCN2 antibody	Most Applications
Application Notes for anti-CLCN2 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-CLCN2 antibody	This gene encodes a voltage-gated chloride channel. The encoded protein is a transmembrane protein 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.
Other Notes	Small volumes of anti-CLCN2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CLCN2 purchase	MBS9448850 is an antibody targeting CLCN2. Also known as CLCN2 Conjugated Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CLCN2. It may not necessarily be applicable to this product.

NCBI GI #	156104869
NCBI GeneID	1181
NCBI Accession #	NP_004357.3
UniProt Primary Accession #	P51788
UniProt Secondary Accession #	O14864; Q6IPA9; Q8WU13; B4DQT9; B4DZ58; E9PBD9; E9PCD2
UniProt Related Accession #	P51788
GenBank Nucleotide #	NM_004366.5
NCBI Official Full Name	chloride channel protein 2 isoform 1
NCBI Official Synonym Full Names	chloride channel, voltage-sensitive 2
NCBI Official Symbol	CLCN2
NCBI Official Synonym Symbols	CLC2; ECA2; ECA3; EGI3; EGMA; EJM6; EJM8; CIC-2; EGI11; LKPAT; clC-2
UniProt Protein Name	Chloride channel protein 2
Protein Family	Chloride channel protein
UniProt Gene Name	CLCN2
UniProt Synonym Gene Names	ClC-2
UniProt Entry Name	CLCN2_HUMAN
NCBI Protein Information	chloride channel protein 2; chloride channel 2
UniProt Comments for CLCN2	CLCN2: Voltage-gated chloride channel. Chloride channels have several functions including the regulation of cell volume; membrane potential stabilization, signal transduction and transepithelial transport. Defects in CLCN2 are associated with susceptibility to epilepsy, idiopathic generalized type 11 (EIG11). A disorder characterized by recurring generalized seizures in the absence of detectable brain lesions and/or metabolic abnormalities. Generalized seizures arise diffusely and simultaneously from both hemispheres of the brain. Defects in CLCN2 are associated with juvenile absence epilepsy type 2 (JAE2). JAE is a subtype of idiopathic generalized epilepsy (IGE) characterized by onset occurring around puberty, absence seizures, generalized tonic- clonic seizures (GTCS), GTCS on awakening and myoclonic seizures. Defects in CLCN2 are associated with juvenile myoclonic epilepsy type 8 (EJM8). A subtype of idiopathic generalized epilepsy. Patients have afebrile seizures only, with onset in adolescence (rather than in childhood) and myoclonic jerks which usually occur after awakening and are triggered by sleep deprivation and fatigue. Belongs to the chloride channel (TC 2.A.49) family. ClC-2/CLCN2 subfamily. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Channel, chloride; Transporter, ion channel; Membrane protein, integral; Membrane protein, multi-pass; Transporter Chromosomal Location of Human Ortholog: 3q27.1 Cellular Component: plasma membrane Molecular Function: voltage-gated chloride channel activity Biological Process: retina development in camera-type eye; transport; transmembrane transport Disease: Epilepsy, Idiopathic Generalized, Susceptibility To, 11; Leukoencephalopathy With Ataxia
Research Articles on CLCN2	**1.** Correlation between CLC-2 gene expression and the cytoskeleton in human trabecular meshwork cells.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-mouse-rat-antibody/clcn2/9448850