abcam

Product datasheet

# Anti-ClC-2 antibody ab192506

1 Abreviews 1 Image

## Overview

| | |
|---|---|
| **Product name** | Anti-ClC-2 antibody |
| **Description** | Rabbit polyclonal to ClC-2 |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** WB |
| **Species reactivity** | **Reacts with:** Mouse |
| **Immunogen** | Recombinant full length protein corresponding to Human ClC-2.<br>Database link: **P51788** |
| **Positive control** | WB: Mouse brain and testis tissue lysates. |

## Properties

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|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| **Storage buffer** | Preservative: 0.1% Sodium azide<br>Constituents: 50% Glycerol, 49% PBS |
| **Purity** | Immunogen affinity purified |
| **Purification notes** | Purity is > 95% (by SDS-PAGE). |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab192506 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| **WB** | (1) | 1/500 - 1/2000. Predicted molecular weight: 90-98 kDa. |

## Target

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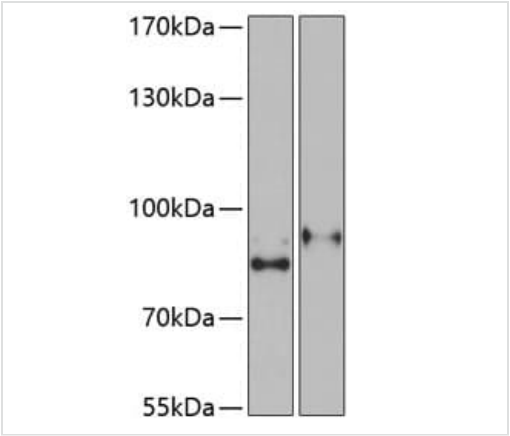
|---|---|
| **Function** | Voltage-gated chloride channel. Chloride channels have several functions including the regulation of cell volume; membrane potential stabilization, signal transduction and transepithelial transport. |
| **Tissue specificity** | Ubiquitously expressed. Moderately expressed in aortic and coronary vascular smooth muscle cells and expressed at a low level in aortic endothelial cells. |
| **Involvement in disease** | Defects in CLCN2 are associated with susceptibility to idiopathic generalized epilepsy type 11 (IGE11) [MIM:607628]. 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.<br>Defects in CLCN2 are the cause of childhood absence epilepsy type 3 (ECA3) [MIM:607682]. ECA3 is a subtype of idiopathic generalized epilepsy (IGE) characterized by onset at age 6-7 years, frequent absence seizures (several per day) and bilateral, synchronous, symmetric 3 Hz spike waves on EEG. During adolescence, tonic-clonic and myoclonic seizures develop.<br>Defects in CLCN2 are associated with juvenile absence epilepsy type 2 (JAE2) [MIM:607628]. 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.<br>Defects in CLCN2 are associated with juvenile myoclonic epilepsy type 8 (EJM8) [MIM:607628]. 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. |
| **Sequence similarities** | Belongs to the chloride channel (TC 2.A.49) family. ClC-2/CLCN2 subfamily.<br>Contains 2 CBS domains. |
| **Cellular localization** | Membrane. |

## Images




Western blot - Anti-ClC-2 antibody (ab192506)

**All lanes :** Anti-ClC-2 antibody (ab192506) at 1/500 dilution

**Lane 1 :** Mouse brain tissue lysate
**Lane 2 :** Mouse testis tissue lysate

**Predicted band size:** 90-98 kDa



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