

Product datasheet

Anti-CIC-2 antibody [EPR6492(2)] ab154798

Recombinant RabMAb

★★★★☆ [1 Abreviews](#) [2 References](#) [4 Images](#)

Overview

| | |
|----------------------------|--|
| Product name | Anti-CIC-2 antibody [EPR6492(2)] |
| Description | Rabbit monoclonal [EPR6492(2)] to CIC-2 |
| Host species | Rabbit |
| Tested applications | Suitable for: WB, IHC-P Unsuitable for: Flow Cyt, ICC/IF or IP |
| Species reactivity | Reacts with: Mouse, Rat, Human |
| Immunogen | Synthetic peptide within Human CIC-2. The exact sequence is proprietary. (Peptide available as ab218163) |
| Positive control | HT29 and HeLa whole cell lysate (ab150035); mouse brain, mouse heart, mouse kidney, mouse spleen, rat kidney and rat spleen lysates; Human thyroid gland carcinoma tissue. |
| General notes | This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents . |

Properties

| | |
|-----------------------------|--|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at -20°C. |
| Storage buffer | pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant |
| Purity | Protein A purified |
| Clonality | Monoclonal |
| Clone number | EPR6492(2) |

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab154798 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 | | 1/1000 - 1/10000. Predicted molecular weight: 99 kDa. |
| IHC-P | ★★★★★ (1) | 1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. |

Application notes

Is unsuitable for Flow Cyt, ICC/IF or IP.

Target

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.

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.

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.

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.

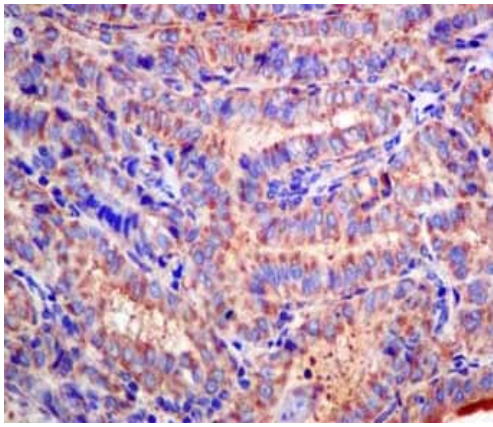
Sequence similarities

Belongs to the chloride channel (TC 2.A.49) family. CIC-2/CLCN2 subfamily. Contains 2 CBS domains.

Cellular localization

Membrane.

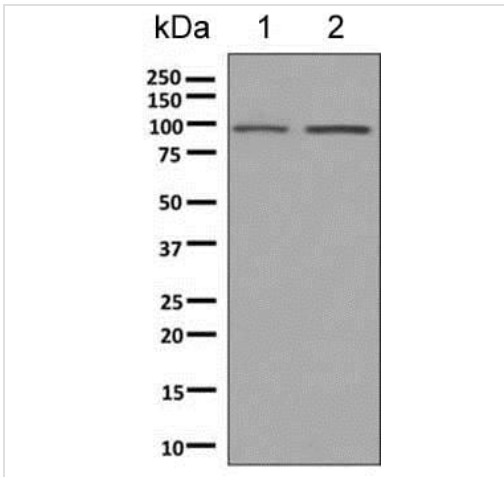
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CIC-2 antibody [EPR6492(2)] (ab154798)

Immunohistochemical analysis of paraffin-embedded Human thyroid gland carcinoma tissue labeling CIC-2 with ab154798 at 1/50 dilution.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-CIC-2 antibody [EPR6492(2)] (ab154798)

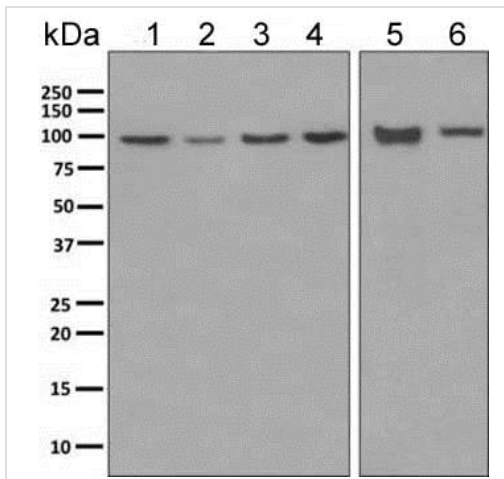
All lanes : Anti-CIC-2 antibody [EPR6492(2)] (ab154798) at 1/1000 dilution

Lane 1 : HT29 cell lysate

Lane 2 : HeLa cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 99 kDa



Western blot - Anti-CIC-2 antibody [EPR6492(2)] (ab154798)

All lanes : Anti-CIC-2 antibody [EPR6492(2)] (ab154798) at 1/1000 dilution

Lane 1 : mouse brain lysate

Lane 2 : mouse heart lysate

Lane 3 : mouse kidney lysate

Lane 4 : mouse spleen lysate





Lane 5 : rat kidney lysate

Lane 6 : rat spleen lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 99 kDa

Why choose a recombinant antibody?

| | |
|---|---|
|  Research with confidence Consistent and reproducible results |  Long-term and scalable supply Recombinant technology |
|  Success from the first experiment Confirmed specificity |  Ethical standards compliant Animal-free production |

Anti-CIC-2 antibody [EPR6492(2)] (ab154798)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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