abcam

Product datasheet

Anti-CLCNKB antibody [EPR8414(2)] - BSA and Azide free ab249401

Recombinant RabMAb

2 Images

Overview

Product name	Anti-CLCNKB antibody [EPR8414(2)] - BSA and Azide free
Description	Rabbit monoclonal [EPR8414(2)] to CLCNKB - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB **Unsuitable for:** Flow Cyt,ICC/IF,IHC-P or IP
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	ab249401 is the carrier-free version of **ab167158**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. This product is a recombinant monoclonal antibody, which offers several advantages including: - 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 +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Affinity purified
Clonality	Monoclonal
Clone number	EPR8414(2)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab249401 in the following tested applications.

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

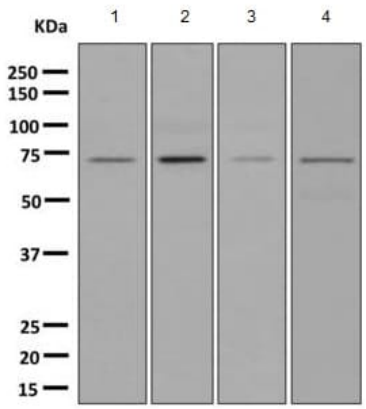
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 75 kDa.

Application notes Is unsuitable for Flow Cyt,ICC/IF,IHC-P 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. May be important in urinary concentrating mechanisms.
Tissue specificity	Expressed predominantly in the kidney.
Involvement in disease	Defects in CLCNKB are the cause of Bartter syndrome type 3 (BS3) [MIM:607364]; also known as classic Bartter syndrome. It is an autosomal recessive form of often severe intravascular volume depletion due to renal salt-wasting associated with low blood pressure, hypokalemic alkalosis, hypercalciuria, and normal serum magnesium levels. Defects in CLCNKB are a cause of Bartter syndrome type 4B (BS4B) [MIM:613090]. A digenic, recessive disorder characterized by impaired salt reabsorption in the thick ascending loop of Henle with pronounced salt wasting, hypokalemic metabolic alkalosis, and varying degrees of hypercalciuria. Bartter syndrome type 4B is associated with sensorineural deafness.
Sequence similarities	Belongs to the chloride channel (TC 2.A.49) family. CLCNKB subfamily. Contains 2 CBS domains.
Cellular localization	Cell membrane.

Images



Western blot - Anti-CLCNKB antibody [EPR8414(2)] - BSA and Azide free (ab249401)

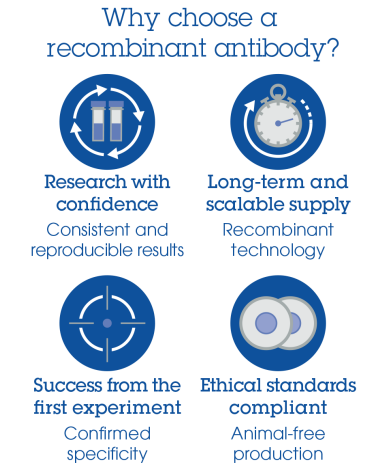
All lanes : Anti-CLCNKB antibody [EPR8414(2)] (**ab167158**) at 1/1000 dilution

Lane 1 : Human fetal lung cell lysate
Lane 2 : HepG2 cell lysate
Lane 3 : A673 cell lysate
Lane 4 : Human fetal kidney cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 75 kDa

This data was developed using **ab167158**, the same antibody clone in a different buffer formulation.



Anti-CLCNKB antibody [EPR8414(2)] - BSA and Azide free (ab249401)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you

- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors