abcam

Product datasheet

Anti-Band 3/AE 1 antibody ab172129

1 Image

Overview

Product name Anti-Band 3/AE 1 antibody

Description Mouse polyclonal to Band 3/AE 1

Host species Mouse

Tested applications Suitable for: WB

Species reactivity Reacts with: Human

Immunogen Recombinant full length protein within Human Band 3/AE 1 aa 1 to the C-terminus. The exact

immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please

contact our Scientific Support team to discuss your requirements. AAH99628.1

Database link: P02730

Run BLAST with
Run BLAST with

Positive control Band 3/AE 1 transfected 293T cell line lysate

General notesThe Life Science industry has been in the grips of a reproducibility crisis for a number of years.

Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

Properties

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 pH: 7.4

Constituent: 100% PBS

Purity Protein A purified

Clonality Polyclonal

Isotype IgG

1

Applications

The Abpromise guarantee

Our Abpromise guarantee covers the use of ab172129 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 a concentration of 1 µg/ml. Predicted molecular weight: 101 kDa.

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Function

Functions both as a transporter that mediates electroneutral anion exchange across the cell membrane and as a structural protein. Major integral membrane glycoprotein of the erythrocyte membrane; required for normal flexibility and stability of the erythrocyte membrane and for normal erythrocyte shape via the interactions of its cytoplasmic domain with cytoskeletal proteins, glycolytic enzymes, and hemoglobin. Functions as a transporter that mediates the 1:1 exchange of inorganic anions across the erythrocyte membrane. Mediates chloride-bicarbonate exchange in the kidney, and is required for normal acidification of the urine.

Tissue specificity

 $Detected\ in\ erythrocytes\ (at\ protein\ level)\ (PubMed: 7506871,\ PubMed: 26542571).\ Isoform\ 2\ is$

expressed in kidney (at protein level) (PubMed:7506871).

Involvement in disease

Ovalocytosis, Southeast Asian

Spherocytosis 4

Renal tubular acidosis, distal, autosomal dominant Renal tubular acidosis, distal, with hemolytic anemia

Renal tubular acidosis, distal, with normal red cell morphology

Cryohydrocytosis

Sequence similarities

Belongs to the anion exchanger (TC 2.A.31) family.

Post-translational modifications

Phosphorylated on Tyr-8 and Tyr-21 most likely by SYK. PP1-resistant phosphorylation that

precedes Tyr-359 and Tyr-904 phosphorylation.

Phosphorylated on Tyr-359 and Tyr-904 most likely by LYN. PP1-inhibited phosphorylation that

follows Tyr-8 and Tyr-21 phosphorylation.

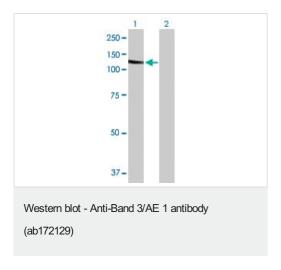
N-glycosylated.

Cellular localization

Cell membrane. Basolateral cell membrane. Detected in the erythrocyte cell membrane and on

the basolateral membrane of alpha-intercalated cells in the collecting duct in the kidney.

Images



All lanes: Anti-Band 3/AE 1 antibody (ab172129) at 1 µg/ml

Lane 1: Band 3/AE 1 transfected 293T cell line lysate

Lane 2: Non-transfected 293T cell line lysate

Lysates/proteins at 15 µl per lane.

Secondary

All lanes: Goat Anti-Mouse IgG at 1/2500 dilution

Predicted band size: 101 kDa

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

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

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