

Anti-Band 3/AE 1 antibody [EPR1425(2)] - BSA and Azide free ab249866

Recombinant RabMAb

4 Images

Overview

Product name	Anti-Band 3/AE 1 antibody [EPR1425(2)] - BSA and Azide free
Description	Rabbit monoclonal [EPR1425(2)] to Band 3/AE 1 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB Unsuitable for: ICC/IF or IP
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab249866 is the carrier-free version of ab175214.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <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 <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with</p>

these species. Please contact us for more information.

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	EPR1425(2)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab249866 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
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration. Predicted molecular weight: 100 kDa.

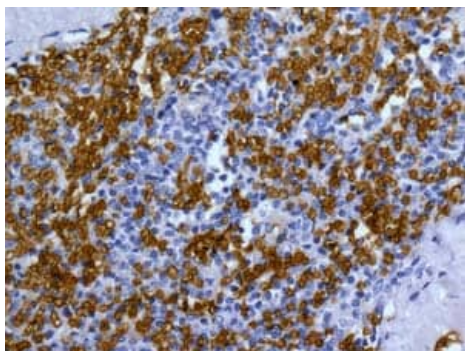
Application notes Is unsuitable for ICC/IF or IP.

Target

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	<p>Phosphorylated on Tyr-8 and Tyr-21 most likely by SYK. PP1-resistant phosphorylation that precedes Tyr-359 and Tyr-904 phosphorylation.</p> <p>Phosphorylated on Tyr-359 and Tyr-904 most likely by LYN. PP1-inhibited phosphorylation that follows Tyr-8 and Tyr-21 phosphorylation.</p> <p>N-glycosylated.</p>
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.

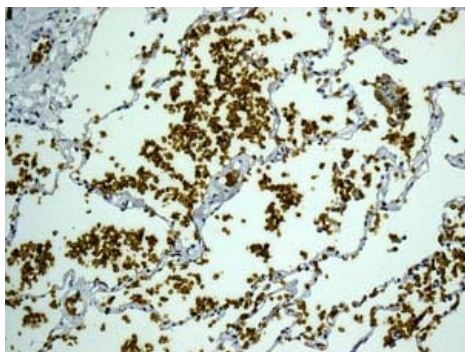
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Band 3/AE 1 antibody [EPR1425(2)] - BSA and Azide free (ab249866)

This data was developed using [ab175214](#), the same antibody clone in a different buffer formulation.

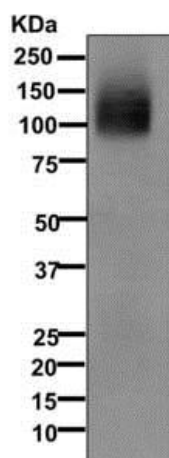
Immunohistochemical analysis of paraffin-embedded Human spleen tissue labeling Band 3/AE 1 at 1/250 dilution. Note erythrocyte staining. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Band 3/AE 1 antibody [EPR1425(2)] - BSA and Azide free (ab249866)

This data was developed using [ab175214](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human lung tissue labeling Band 3/AE 1 with [ab175214](#) at 1/250 dilution. Note erythrocyte staining. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-Band 3/AE 1 antibody
[EPR1425(2)] - BSA and Azide free (ab249866)

Anti-Band 3/AE 1 antibody [EPR1425(2)] ([ab175214](#)) at 1/100000 dilution + Human red blood cell lysate at 10 µg

Predicted band size: 100 kDa

This data was developed using [ab175214](#), the same antibody clone in a different buffer formulation.

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

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

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