# abcam

## Product datasheet

# Anti-Band 3/AE 1 antibody [EPR1425(2)] ab175214



重组 RabMAb

#### 4 图像

#### 概述

产品名称 Anti-Band 3/AE 1抗体[EPR1425(2)]

描述 兔单克隆抗体[EPR1425(2)] to Band 3/AE 1

宿主 Rabbit

经测试应用 适用于: WB, IHC-P

不适用于: ICC/IF or IP

种属反应性 与反应: Human

免疫原 Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

阳性对照 Human red blood cell lysate; Human lung and spleen tissue.

This product is a recombinant monoclonal antibody, which offers several advantages including: 常规说明

- 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**.

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with

these species. Please contact us for more information.

#### 性能

形式 Liquid

存放说明 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.

存储溶液 pH: 7.20

Preservative: 0.01% Sodium azide

Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

纯度 Protein A purified

单克隆 克隆

**克隆编号** EPR1425(2)

**同种型** IgG

#### 应用

### The Abpromise guarantee Abpromise™承诺保证使用ab175214于以下的经测试应用

"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

| 应用    | Ab评论 | 说明  |
|-------|------|---|
| WB    |      | 1/100000 - 1/500000. Predicted molecular weight: 100 kDa.   |
| IHC-P |      | 1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |

应用说明 Is unsuitable for ICC/IF or IP.

#### 靶标

功能 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.

组织特异性 Detected in erythrocytes (at protein level) (PubMed:7506871, PubMed:26542571). Isoform 2 is

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

疾病相关 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

**序列相似性** Belongs to the anion exchanger (TC 2.A.31) family.

翻译后修饰 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

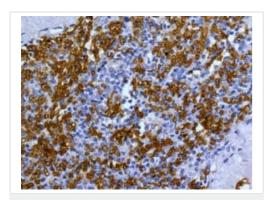
follows Tyr-8 and Tyr-21 phosphorylation.

N-glycosylated.

细胞定位 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.

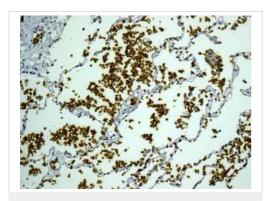
#### 图片



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Band 3/AE 1 antibody
[EPR1425(2)] (ab175214)

Immunohistochemical analysis of paraffin-embedded Human spleen tissue labeling Band 3/AE 1 at 1/250 dilution. Note erythrocyte staining.

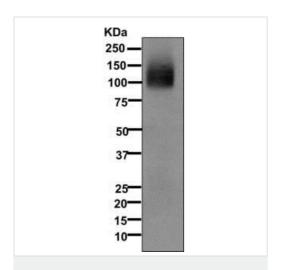
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Band 3/AE 1 antibody [EPR1425(2)] (ab175214)

Immunohistochemical analysis of paraffin-embedded Human lung tissue labeling Band 3/AE 1 wtih ab175214 at 1/250 dilution. Note erythrocyte staining.

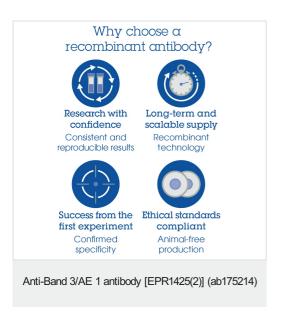
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-Band 3/AE 1 antibody [EPR1425(2)] (ab175214)

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

Predicted band size: 100 kDa



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 <a href="https://www.abcam.cn/abpromise">https://www.abcam.cn/abpromise</a> or contact our technical team.

#### Terms and conditions

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