

## Product datasheet

# Anti-Band 3/AE 1 (phospho Y359) antibody [EPR1427Y] ab77236

Recombinant RabMAb

2 Images

### Overview

|                            |  |
|----------------------------|--|
| <b>Product name</b>        | Anti-Band 3/AE 1 (phospho Y359) antibody [EPR1427Y]  |
| <b>Description</b>         | Rabbit monoclonal [EPR1427Y] to Band 3/AE 1 (phospho Y359)   |
| <b>Host species</b>        | Rabbit   |
| <b>Tested applications</b> | <b>Suitable for:</b> WB<br><b>Unsuitable for:</b> Flow Cyt or IP   |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human  |
| <b>Immunogen</b>           | Synthetic peptide corresponding to Human Band 3/AE 1 (phospho Y359).   |
| <b>Positive control</b>    | Red blood cell lysates treated with pervanadate  |
| <b>General notes</b>       | <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p> |

### Properties

|                             |   |
|-----------------------------|---|
| <b>Form</b>                 | Liquid  |
| <b>Storage instructions</b> | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.   |
| <b>Storage buffer</b>       | <p>pH: 7.20</p> <p>Preservative: 0.05% Sodium azide</p> <p>Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant</p> |
| <b>Purity</b>               | Protein A purified  |

|                     |            |
|---------------------|------------|
| <b>Clonality</b>    | Monoclonal |
| <b>Clone number</b> | EPR1427Y   |
| <b>Isotype</b>      | IgG        |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab77236 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

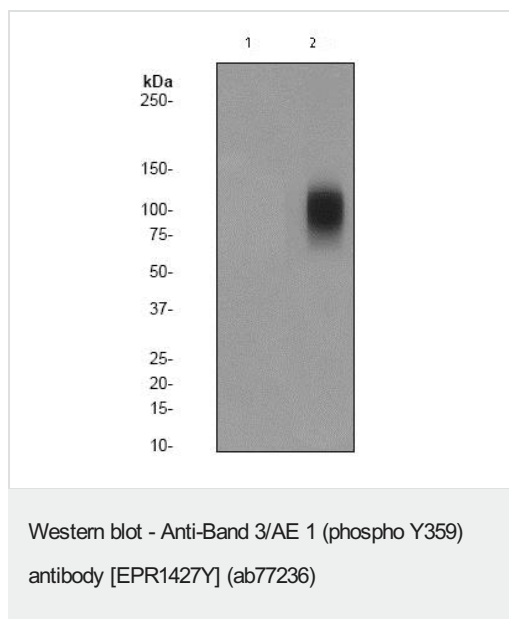
| Application | Abreviews | Notes   |
|-------------|-----------|---|
| <b>WB</b>   |           | 1/50000. Predicted molecular weight: 102 kDa. |

**Application notes** Is unsuitable for Flow Cyt or IP.

## Target

|   |   |
|---|---|
| <b>Function</b>                         | 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. |
| <b>Tissue specificity</b>               | Detected in erythrocytes (at protein level) (PubMed:7506871, PubMed:26542571). Isoform 2 is expressed in kidney (at protein level) (PubMed:7506871).  |
| <b>Involvement in disease</b>           | Ovalocytosis, Southeast Asian<br>Spherocytosis 4<br>Renal tubular acidosis, distal, autosomal dominant<br>Renal tubular acidosis, distal, with hemolytic anemia<br>Renal tubular acidosis, distal, with normal red cell morphology<br>Cryohydrocytosis  |
| <b>Sequence similarities</b>            | Belongs to the anion exchanger (TC 2.A.31) family.  |
| <b>Post-translational modifications</b> | Phosphorylated on Tyr-8 and Tyr-21 most likely by SYK. PP1-resistant phosphorylation that precedes Tyr-359 and Tyr-904 phosphorylation.<br>Phosphorylated on Tyr-359 and Tyr-904 most likely by LYN. PP1-inhibited phosphorylation that follows Tyr-8 and Tyr-21 phosphorylation.<br>N-glycosylated.  |
| <b>Cellular localization</b>            | 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 (phospho Y359) antibody [EPR1427Y] (ab77236) at 1/50000 dilution

**Lane 1 :** Red blood cell lysate, untreated.

**Lane 2 :** Red blood cell lysate treated with pervanadate.

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** HRP labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 102 kDa

**Observed band size:** 102 kDa

Why choose a recombinant antibody?

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

Anti-Band 3/AE 1 (phospho Y359) antibody [EPR1427Y] (ab77236)

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

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