



## Band 3/AE1 Rabbit pAb

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| <b>Catalog No</b>                  | YP-Ab-18527                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Reactivity</b>                  | Human,Mouse,Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications</b>                | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Gene Name</b>                   | SLC4A1 AE1 DI EPB3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Immunogen</b>                   | Synthesized peptide derived from human Band 3/AE1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Specificity</b>                 | This antibody detects endogenous levels of Band 3/AE1 at Human, Mouse,Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purification</b>                | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Dilution</b>                    | WB 1:500-2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>                    | AE 1;AE1;Anion exchange protein 1;Anion exchanger 1;B3AT_HUMAN;Band 3 anion transport protein;BND3;CD233;DI;Diego blood group;EMPB3;EPB3;Erythrocyte membrane protein band 3;Erythroid anion exchange protein;FR;Froese blood group;RTA1A;SLC4A1;Solute carrier family 4 anion exchanger member 1;Solute carrier family 4 member 1;SW;Swann blood group;Waldner blood group;WD;WD1;WR;Wright blood group;SLC4A1 AE1 DI EPB3;Band 3 anion transport protein (Anion exchange protein 1) (AE 1) (Anion exchanger 1) (Solute carrier family 4 member 1) (CD antigen CD233) |
| <b>Observed Band</b>               | 100kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Calculated Molecular Weight</b> | 12 kDa; 12kD(Calculated).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Cell Pathway</b>                | Cell membrane ; Multi-pass membrane protein . Basolateral cell membrane ; Multi-pass membrane protein . Detected in the erythrocyte cell membrane and on the basolateral membrane of alpha-intercalated cells in the collecting duct in the kidney. .                                                                                                                                                                                                                                                                                                                  |
| <b>Tissue Specificity</b>          | Detected in erythrocytes (at protein level). ; [Isoform 2]: Expressed in kidney (at protein level).                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**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.

**Background****matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**