antibodies

Datasheet for ABIN3043930 anti-Band 3/AE1 antibody (AA 28-365)

5 Images



Overview

| Quantity: | 100 µg |
|----------------------|---|
| Target: | Band 3/AE1 (SLC4A1) |
| Binding Specificity: | AA 28-365 |
| Reactivity: | Human, Rat, Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This Band 3/AE1 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)) |
| Product Details | |
| Purpose: | Rabbit IgG polyclonal antibody for Band 3 anion transport protein(SLC4A1) detection. Tested with WB, IHC-P, IHC-F in Human,Mouse,Rat. |
| Immunogen: | E. coli-derived human Band 3 (Position: E28-N365). Human Band 3 shares 75.7% and 74.5% |

| amino acid (aa | a) sequence identity | with mouse and rat B | and 3, respectively. |
|----------------|----------------------|----------------------|----------------------|
|----------------|----------------------|----------------------|----------------------|

| Isotype: | IgG |
|-----------------------------|---|
| Cross-Reactivity (Details): | No cross reactivity with other proteins. |
| Characteristics: | Rabbit IgG polyclonal antibody for Band 3 anion transport protein(SLC4A1) detection. Tested with WB, IHC-P, IHC-F in Human,Mouse,Rat. |
| | Gene Name: solute carrier family 4 (anion exchanger), member 1 (Diego blood group) |
| | Protein Name: Band 3 anion transport protein |

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Product Details

Purification:

Immunogen affinity purified.

Target Details

| Target: | Band 3/AE1 (SLC4A1) |
|-------------------|--|
| Alternative Name: | SLC4A1 (SLC4A1 Products) |
| Background: | Band 3 is also known as SLC4A1. The protein encoded by this gene is part of the anion |
| | exchanger (AE) family and is expressed in the erythrocyte plasma membrane, where it |
| | functions as a chloride/bicarbonate exchanger involved in carbon dioxide transport from |
| | tissues to lungs. The protein comprises two domains that are structurally and functionally |
| | distinct. The N-terminal 40 kDa domain is located in the cytoplasm and acts as an attachment |
| | site for the red cell skeleton by binding ankyrin. The glycosylated C-terminal membrane- |
| | associated domain contains 12-14 membrane spanning segments and carries out the stilbene |
| | disulphonate-sensitive exchange transport of anions. The cytoplasmic tail at the extreme C- |
| | terminus of the membrane domain binds carbonic anhydrase II. The encoded protein |
| | associates with the red cell membrane protein glycophorin A and this association promotes the |
| | correct folding and translocation of the exchanger. This protein is predominantly dimeric but |
| | forms tetramers in the presence of ankyrin. Many mutations in this gene are known in man, an |
| | these mutations can lead to two types of disease: destabilization of red cell membrane leading |
| | to hereditary spherocytosis, and defective kidney acid secretion leading to distal renal tubular |
| | acidosis. Other mutations that do not give rise to disease result in novel blood group antigens, |
| | which form the Diego blood group system. |
| | Synonyms: AE 1 antibody AE1 antibody Anion exchange protein 1 antibody Anion exchanger 1 |
| | antibody B3AT_HUMAN antibody Band 3 anion transport protein antibody BND3 |
| | antibody CD233 antibody DI antibody Diego blood group antibody EMPB3 antibody EPB3 |
| | antibody Erythrocyte membrane protein band 3 antibody Erythroid anion exchange protein |
| | antibody FR antibody Froese blood group antibody RTA1A antibody SLC4A1 antibody Solute |
| | carrier family 4 anion exchanger member 1 antibody Solute carrier family 4 member 1 |
| | antibody SW antibody Swann blood group antibody Waldner blood group antibody WD |
| | antibody WD1 antibody WR antibody Wright blood group antibody |
| Gene ID: | 6521 |
| UniProt: | P02730 |
| | |

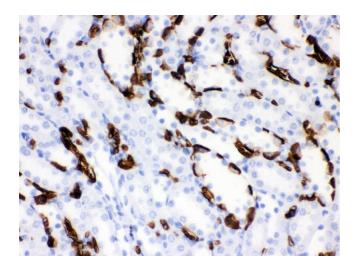
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Application Details

| Application Notes: | WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat |
|--------------------|--|
| | IHC-P: Concentration: 0.5-1 μ g/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by |
| | Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the |
| | staining of formalin/paraffin sections. |
| | IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Human |
| | Notes: Tested Species: Species with positive results. Other applications have not been tested. |
| | Optimal dilutions should be determined by end users. |
| Comment: | Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by |
| | ABIN921231 in IHC(P) and IHC(F). |
| Restrictions: | For Research Use only |

Handling

| Format: | Lyophilized |
|--------------------|--|
| Reconstitution: | Add 0.2 mL of distilled water will yield a concentration of 500 μ g/mL. |
| Concentration: | 500 µg/mL |
| Buffer: | Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Avoid repeated freezing and thawing. |
| Storage: | 4 °C/-20 °C |
| Storage Comment: | At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing. |



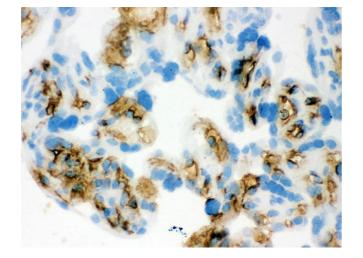
1 2 3 4 5 130KD-100KD-70KD-55KD-35KD-25KD-

Immunohistochemistry

Image 1. Anti- Band 3 Picoband antibody,IHC(P) IHC(P): Rat Kidney Tissue

Western Blotting

Image 2. Anti- Band 3 Picoband antibody, Western blotting All lanes: Anti Band 3 at 0.5ug/ml Lane 1: Rat Brain Tissue Lysate at 50ug Lane 2: Rat Kidney Tissue Lysate at 50ug Lane 3: Rat Liver Tissue Lysate at 50ug Lane 4: Rat Spleen Tissue Lysate at 50ug Lane 5: Human Placenta Tissue Lysate at 50ug Predicted bind size: 102KD Observed bind size: 102KD



Immunohistochemistry

Image 3. Anti- Band 3 Picoband antibody,IHC(F) IHC(F): Human Placenta Tissue

Please check the product details page for more images. Overall 5 images are available for ABIN3043930.

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