

## Product datasheet

# Recombinant Human Band 3/AE 1 protein (Tagged) ab235968

[1 Image](#)

### Description

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<b>Product name</b>	Recombinant Human Band 3/AE 1 protein (Tagged)
<b>Purity</b>	> 90 % SDS-PAGE.
<b>Expression system</b>	Escherichia coli
<b>Accession</b>	<b><u>P02730</u></b>
<b>Protein length</b>	Protein fragment
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	MEELQDDYEDMMEENLEQEEYEDPDIPESQMEEPAAH TEATATDYHTTS HPGTHKVYVELQELVMDEKNQELRWMEARWVQLEENL GENGAWGRPHLS HLTFWSLLELRRVFTKGTVLLDLQETSLAGVANQLLDRFIF EDQIRPQDR EELLRALLLKHSHAGELEALGGVKPAVLTRSGDPSQPLLP QHSSLETQLF CEQGDGGTEGHSPSGILEKIPPDSEATLVLVGRADFLEQP VLGFVRLQEA AELEAVELPVPIRFLVLLGPEAPHIDYTLGAAAATLMSE RVFRIDAYM AQRGELLHSLEGFLDCSLVLPPTDAPSEQALLSLVPVQ RELLRRRYQSS PAKPDSSFYKGLDLNGGPDDPLQQTGQLFGGLVRDIRRR YPYLSGITDA FSP
<b>Predicted molecular weight</b>	65 kDa including tags
<b>Amino acids</b>	1 to 403
<b>Tags</b>	His tag N-Terminus
<b>Additional sequence information</b>	Cytoplasmic domain. N-terminal 10xHis-SUMO-tag and C-terminal Myc-tag.

### Specifications

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Our **Abpromise guarantee** covers the use of **ab235968** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE
<b>Form</b>	Liquid
<b>Additional notes</b>	Previously labelled as Band 3.

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## Preparation and Storage

<b>Stability and Storage</b>	Shipped at 4°C. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.2 Constituents: Tris buffer, 50% Glycerol (glycerin, glycerine)
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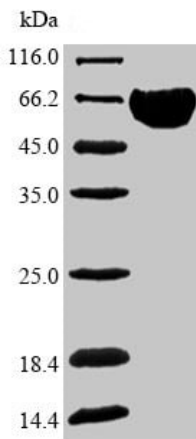
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## General Info

<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 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
<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. Phosphorylated on Tyr-359 and Tyr-904 most likely by LYN. PP1-inhibited phosphorylation that follows Tyr-8 and Tyr-21 phosphorylation. 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.

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## Images



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) analysis with 5% enrichment gel and 15% separation gel of ab235968.

SDS-PAGE - Recombinant Human Band 3/AE 1 protein (Tagged) (ab235968)

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

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