

Datasheet for ABIN1694652

anti-Band 3/AE1 antibody (pTyr21) (AbBy Fluor® 488)



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Overview

Quantity:	100 µL
Target:	Band 3/AE1 (SLC4A1)
Binding Specificity:	pTyr21
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Band 3/AE1 antibody is conjugated to AbBy Fluor® 488
Application:	Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human Band3 around the phosphorylation site of Tyr21
Isotype:	IgG
Predicted Reactivity:	Human,Dog
Purification:	Purified by Protein A.

Target Details

Target:	Band 3/AE1 (SLC4A1)
Alternative Name:	Band3 (SLC4A1 Products)

Target Details

Background:	<p>Synonyms: SLC4A1, Band 3 phospho Y21, p-Band 3 phospho Y21, Solute carrier family 4 anion exchanger member 1, Solute carrier family 4 member 1, AE 1, AE1, Anion exchange protein 1, Anion exchanger 1, B3AT_HUMAN, Band 3, Band 3 anion transport protein, BND3, CD233, DI, Diego blood group, EMPB3, EPB3, Erythrocyte membrane protein band 3, Erythroid anion exchange protein, FR antibod, Froese blood group, RTA1A, Solute carrier family 4 member 1, SW antibody, Swann blood group, Waldner blood group, WD antibody, WD1, WR antibody, Wright blood group.</p> <p>Background: Band 3, also designated AE1, is an erythrocyte membrane glycoprotein that contributes to cell structural integrity and mediates exchange of chloride and bicarbonate across the phospholipid bilayer. The diverse functions of the approximately 900 amino acid protein are mediated by two distinct domains. The amino terminal domain, also known as cdb3 for cytoplasmic domain of erthrocyte membrane band 3, acts as an attachment site for the erythrocyte skeleton by binding ankyrin. The carboxy-terminal, membrane-associated domain carries out exchange transport of anions. Degradation of band 3 can generate an aging antigen known as senescent cell antigen, or SCA, which is expressed on old cells and marks them for removal by the immune system. An isoform of band 3, which lacks the first 65 amino acids and does not bind ankryin, is expressed in kidney.</p>
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Gene ID:	6521
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UniProt:	P02730
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Application Details

Application Notes:	IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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Concentration:	1 µg/µL
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Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.
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Preservative:	ProClin
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Handling

Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.
Expiry Date:	12 months