Datasheet for ABIN1713607

anti-Band 3/AE1 antibody (pTyr21)

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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 un-conjugated
Application:	ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

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)

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Target Details

Background:	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. Background: Band 3, also designated AE1, is an erythrocyte membrane glycoprotein that contributes to cell stuctural 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.
Gene ID:	6521
UniProt:	P02730

Application Details

Application Notes:	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
	ICC 1:100-500

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL

Handling

Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

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