

Mouse anti-Human Band III Monoclonal Antibody | anti-SLC4A1 antibody

Band III

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215199	Mouse	Human	Western Blot, Immunofluorescence, ELISA

PRODUCT SYNONYMS

Band III; Monoclonal Antibody; AE1; Anion exchange protein 1; 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 member 1; SW; Swann blood group; Waldner blood group; WD1; WR; Wright blood group antibody; anti-SLC4A1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	Q1/156
Specificity	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 erythrocyte 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 ankyrin, is expressed in kidney.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide.
Sequence Length	911
Applicable Applications for anti-SLC4A1 antibody	WB (Western Blot), IF (Immunofluorescence), ELISA
Positive Control	Red blood cell lysate; Human colon and lung tissue.
Immunogen	Human fetal liver cells.
Cellular Localization	Cell Membrane
Hu-chromosome Location	17q21.31
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Non-hazardous. No MSDS required.

IMAGES



SDS-PAGE
SDS-PAGE Analysis Purified Band III Mouse Monoclonal Antibody (Q1/156). Confirmation of Purity and Integrity of Antibody.

ADDITIONAL INFORMATION

References	Brock, C.J., Tanner, M.J. and Kempf, C. 1983. Biochem. J. 213: 577-586
------------	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507021
NCBI GeneID	6521
NCBI Accession #	NP_000333.1
NCBI GenBank Nucleotide #	NP_000333.1
UniProt Accession #	P02730
Molecular Weight	95kDa
NCBI Official Full Name	band 3 anion transport protein
NCBI Official Synonym Full Names	solute carrier family 4 member 1 (Diego blood group)
NCBI Official Symbol	SLC4A1
NCBI Official Synonym Symbols	DI; FR; SW; WD; WR; AE1; CHC; SAO; WD1; BND3; EPB3; SPH4; CD233; EMPB3; RTA1A
NCBI Protein Information	band 3 anion transport protein
UniProt Protein Name	Band 3 anion transport protein
UniProt Gene Name	SLC4A1
UniProt Synonym Gene Names	AE1; DI; EPB3; AE 1; Anion exchanger 1
UniProt Entry Name	B3AT_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.