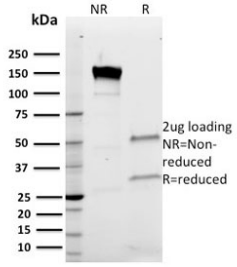
Band 3 Antibody / SLC4A1 [clone Q1/156] (V8083)

Catalog No.	Formulation	Size
V8083-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V8083-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V8083SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	Q1/156
Purity	Protein G affinity chromatography
UniProt	P02730
Applications	ELISA (order BSA-free format for coating) Immunofluorescence: 1-2ug/ml Western blot: 1-2ug/ml
Limitations	This Band 3 antibody is available for research use only.



SDS-PAGE analysis of purified, BSA-free Band 3 antibody (clone Q1/156) as confirmation of integrity and purity.

Description

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.

Learn more about SLC4A1-mediated bicarbonate transport, erythrocyte membrane organization, acid-base regulation, and cellular ion homeostasis on our SLC4A1 Antibody page.

Application Notes

Optimal dilution of the Band 3 antibody should be determined by the researcher.

Immunogen

Human fetal liver cells were used as the immunogen for the Band 3 antibody.

Storage

Store the Band 3 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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