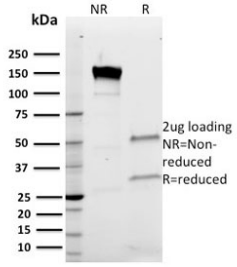
# Band 3 Antibody / SLC4A1 [clone Q1/156] (V8083)

| 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) :<br>Immunofluorescence : 1-2ug/ml<br>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.

## 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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