

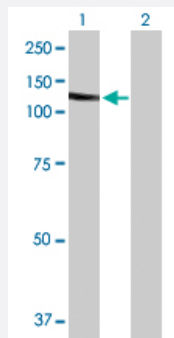
MaxPab®

SLC4A1 purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00006521-B01P

Size 50 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of SLC4A1 expression in transfected 293T cell line ([H00006521-T01](#)) by SLC4A1 MaxPab polyclonal antibody.

Lane 1: SLC4A1 transfected lysate(100.21 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description

Mouse polyclonal antibody raised against a full-length human SLC4A1 protein.

Immunogen

SLC4A1 (AAH99628.1, 1 a.a. ~ 911 a.a) full-length human protein.

Sequence

MEELQDDYEDMMEENLEQEEYEDPDIHESQMEEPAAHDTATDYHTTSHPGTHKVVELQEL
VMDEKNQELRWMEARWVQLEENLGENGAWGRPHLSHLTFWSLLELRRVFTKGTVLLDLQETS
LAGVANQLLDRFIFEDQIRPQDREELLRALLLKSHAGLEALGGVKPAVLTRSGDPSQPLLPQH
SSLETQLFCEQGDGGTEGHSPSGILEKIPPDSEATLVLVGRADFLEQPVLFVRLQEAAELEAVE
LPVPIRFLFVLLGPEAPHIDYTQLGRAAAATLMSERVFRIDAYMAQSRGELLHSLEGFLDCSLVLPPT
DAPSEQALLSLVPVQRELLRRRYQSSPAKPDSSFYKGLDLNGGPDDPLQQTGQLFGGLVRDIRR
RYPYLLSDITDAFSPQVLA AVIFYAALSPAITFGGLLGEKTRNQMGVSELLISTAVQGILFALLGAQ
PLLVVGFSGPLLVFEEAFFSCETNGLEYVGRVWIGFWLILLVVLVVAFEGSFLVRFISRYTQEIFS
FLISLIFYETFSKLIKIFQDHPLKQTYNYNVLMPKPKQGPLPNTALLSLVLMAGTFFFAMMLRKFKNS
SYFPGKLRRVIGDFGVPI SILIMVLVDFFIQD TYTQKLSVPDGFKVSNS SARGWVIHPLGLRSEFPW
MMFASALPALLVFILIFLESQITLMSKPERKMKVKGSGFHLDLLLVGMGGVAALFGMPWLSATTV
RSVTHANALTMGKASTPGAAAQIQEVKEQRISGLLVAVLVGLSILMEPILSRIPAVLFGIFLYMGV
TSLSGIQLFDRILLFLKPPKYHPDVPYVKRVKTRWMHLFTGIQIICLAVLWVVKSTPASLALPFVLILT
VPLRRVLLPLIFRNVELQCLDADDAKATFDEEEGRDEYDEVAMPV

Host

Mouse

Reactivity

Human

Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

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Lane 2: Non-transfected lysate.

[Protocol Download](#)

Gene Info — SLC4A1

Entrez GeneID	6521
GeneBank Accession#	BC099628.3
Protein Accession#	AAH99628.1
Gene Name	SLC4A1
Gene Alias	AE1, BND3, CD233, DI, EMPB3, EPB3, FR, MGC116750, MGC116753, MGC126619, MGC126623, RTA1A, SW, WD, WD1, WR
Gene Description	solute carrier family 4, anion exchanger, member 1 (erythrocyte membrane protein band 3, Diego blood group)
Omim ID	109270 110500 112010 112050 601550 601551 602722
Gene Ontology	Hyperlink

Gene Summary

The protein encoded by this gene is part of the anion exchanger (AE) family and is expressed in the erythrocyte plasma membrane, where it functions as a chloride/bicarbonate exchanger involved in carbon dioxide transport from tissues to lungs. The protein comprises two domains that are structurally and functionally distinct. The N-terminal 40kDa domain is located in the cytoplasm and acts as an attachment site for the red cell skeleton by binding ankyrin. The glycosylated C-terminal membrane-associated domain contains 12-14 membrane spanning segments and carries out the stilbene disulphonate-sensitive exchange transport of anions. The cytoplasmic tail at the extreme C-terminus of the membrane domain binds carbonic anhydrase II. The encoded protein associates with the red cell membrane protein glycophorin A and this association promotes the correct folding and translocation of the exchanger. This protein is predominantly dimeric but forms tetramers in the presence of ankyrin. Many mutations in this gene are known in man, and these mutations can lead to two types of disease: destabilization of red cell membrane leading to hereditary spherocytosis, and defective kidney acid secretion leading to distal renal tubular acidosis. Other mutations that do not give rise to disease result in novel blood group antigens, which form the Diego blood group system. Southeast Asian ovalocytosis (SAO, Melanesian ovalocytosis) results from the heterozygous presence of a deletion in the encoded protein and is common in areas where Plasmodium falciparum malaria is endemic. One null mutation in this gene is known, resulting in very severe anemia and nephrocalcinosis. [provided by RefSeq]

Other Designations

Froese blood group|Swann blood group|Waldner blood group|Wright blood group|anion exchange protein 1|anion exchanger 1|erythrocyte membrane protein band 3|erythroid anion exchange protein|solute carrier family 4, anion exchanger, member 1

Publication Reference

- [Eryptotic phenotype in chronic myeloid leukemia: contribution of neutrophilic cathepsin g.](#)

Govekar R, Kawle P, Thomas R, Advani S, Pv S, Zingde S.

Anemia 2012 Mar; 2012:659303.

Application: WB-Ce, Human, Erythrocytes

Disease

- [Anemia](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Elliptocytosis](#)
- [Genetic Predisposition to Disease](#)
- [Hyperparathyroidism](#)

- [Hypertension](#)
- [Malaria](#)
- [Priapism](#)
- [Spherocytosis](#)
- [Thalassemia](#)