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- Diagnostik & molekulare Diagnostik
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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

SLC4A1 293T Cell Transient Overexpression Lysate(Denatured)

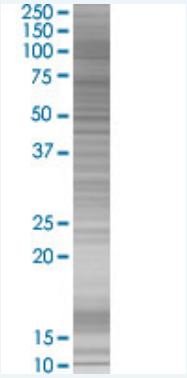
Catalog # : H00006521-T01 **規格 :** [100 uL]

List All

Specification

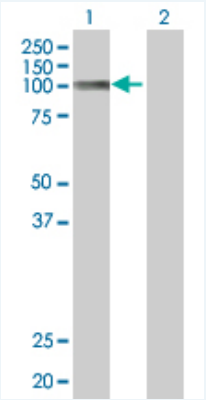
Transfected Cell Line:	293T
Plasmid:	pCMV-SLC4A1 full-length
Host:	Human
Theoretical MW (kDa):	101.8
Quality Control Testing:	Transient overexpression cell lysate was tested with Anti-SLC4A1 antibody (H00006521-B01) by Western Blots.

SDS-PAGE Gel



SLC4A1 transfected lysate.

Western Blot



Lane 1: SLC4A1 transfected lysate (101.8 KDa)
Lane 2: Non-transfected lysate.

Storage Buffer:	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Storage Instruction:	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
MSDS:	Download

Applications

Application Image

Western Blot

Western Blot

Gene Information

Entrez GeneID:	6521
GeneBank Accession#:	BC099628.3
Protein Accession#:	-
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

Related Disease

Anemia Anemia, Sickle Cell Anemia, sickle cell Cardiovascular Diseases
Diabetes Mellitus, Type 2 Edema Elliptocytosis, Hereditary
Genetic Predisposition to Disease Hyperparathyroidism, Secondary Hypertension
Malaria, Falciparum Priapism Spherocytosis, Hereditary Thalassemia Thalassemia

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