



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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SLC4A1 monoclonal antibody (M02), clone 2D5

Catalog # : H00006521-M02

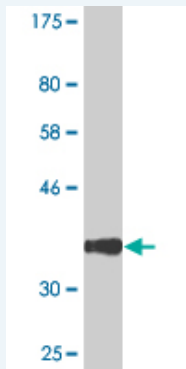
規格 : [100 ug]

[List All](#)

Specification

Product Description:	Mouse monoclonal antibody raised against a partial recombinant SLC4A1.
Immunogen:	SLC4A1 (NP_000333.1, 261 a.a. ~ 360 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence:	PIRFLFVLLGPEAPHIDYQLGRAAATLMSERVFRIDAYMAQSRGELLHS LEGFLDCSLVLPPTDAPSEQALLSLVPVQRELLRRRYQSSPAKPDSSFY K
Host:	Mouse
Reactivity:	Human
Isotype:	IgG1 Kappa

Quality Control Testing: Antibody Reactive Against Recombinant Protein.



Western Blot detection against Immunogen (36.74 KDa) .

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

MSDS: [Download](#)

Datasheet: [Download](#)

Applications

Western Blot (Recombinant protein)

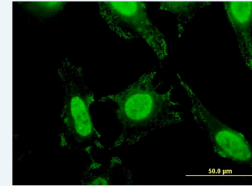
[Protocol Download](#)

Immunofluorescence

Application Image

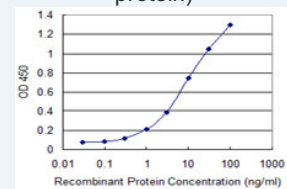
Western Blot (Recombinant protein)

Immunofluorescence



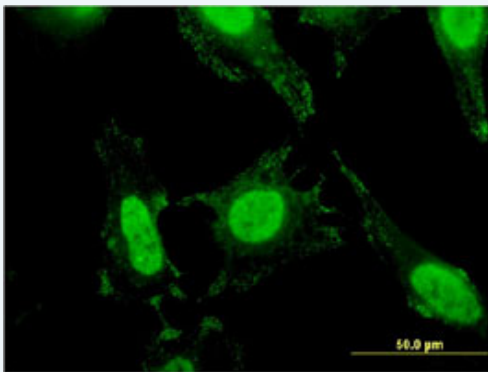
[enlarge](#)

Sandwich ELISA (Recombinant protein)



[enlarge](#)

ELISA

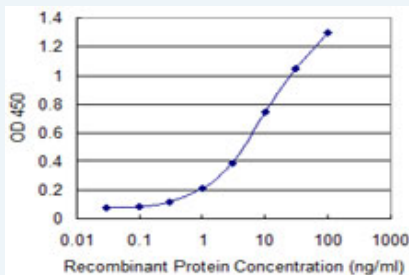


[enlarge this image](#)

Immunofluorescence of monoclonal antibody to SLC4A1 on HeLa cell . [antibody concentration 10 ug/ml]

[Protocol Download](#)

Sandwich ELISA (Recombinant protein)



Detection limit for recombinant GST tagged SLC4A1 is 0.1 ng/ml as a capture antibody.

[Protocol Download](#)

ELISA

Gene Information

Entrez GeneID: [6521](#)

GeneBank Accession#: [NM_000342](#)

Protein Accession#: [NP_000333.1](#)

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

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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