

Rabbit Polyclonal Anti-SGLT1 antibody

Catalog Number: SGLT-101AP

Lot Number:

General Information

Product	SGLT1 Antibody Mid-Region
Description	Na ⁺ /glucose cotransporter SGLT1 Antibody Affinity Purified Mid-Region
Accession #	Uniprot: P13866 GenBank: A33545
Verified Applications	CM, ELISA, ICC, IF, IHC, IP, WB
Species Cross Reactivity	Human, Mouse, Rat
Host	Rabbit
Immunogen	Synthetic peptide corresponding to unique amino acid sequence on SGLT1 protein.
Alternative Nomenclature	D22S675 antibody, NAGT antibody, SGLT1 antibody, SLC5A1 antibody, Sodium glucose cotransporter 1 antibody, Solute carrier family 5 member 1 antibody

Physical Properties

Quantity	100 µg
Volume	200 µl
Form	Affinity Purified Immunoglobulins
Immunoglobulin & Concentration	0.6 mg/ml IgG in antibody stabilization buffer
Storage	Store at -20°C for long term storage.

Recommended Dilutions

DOT Blot	1:4,000
ELISA	1:4,000
Immunocytochemistry	1:250
Immunofluorescence	1:250
Immunohistochemistry	1:250
Immunoprecipitation	1:200
Western Blot	1:500-1:1,000

Related Products

Catalog

FITC-Conjugated	SGLT.m-FITC
Antigenic Blocking Peptide	P-SGLT.m
Western Blot Positive Control	PC-SGLT
C-epitope	SGLT-112AP

Application Verification:



WB of SGLT-101AP with PC-SGLT1. 1:500 antibody, dilution in DiluObuffer. Apparent MW is 70-74 kDa.

Dilutions are for reference only. Applications not listed above are not necessarily precluded from working with this antibody. Investigators intending to use an application that has not been verified can request a complimentary sample.

Overview:

Sodium-glucose linked transporters (SGLT) are a family of glucose transporters that contribute to renal glucose reabsorption. The two most common members of SGLT family are members of the SLC5A gene family: SGLT1 and SGLT2. There are five other members in the human protein family SLC5A, which may also be sodium-glucose transporters (1). SGLTs utilize secondary active transport to transport glucose along kidney proximal tubules by sodium ion cotransport with a sodium ion to glucose coupling ratio of 2:1. A Na⁺/K⁺ ATPase pump on the basolateral membrane of the proximal tubules cells utilizes ATP to move 3 Sodium ions outward into the blood, and 2 potassium ions into the cell. The energy from the resulting downhill sodium ion gradient is utilized by SGLTs to transport glucose across the apical membrane. Since sodium and glucose are transported in the same direction, SGLTs are classified as symporters. SGLTs are mainly expressed in intestine and kidney.

FabGennix SGLT and GLUT antibodies have been fully characterized for cross reactivity within the SGLT and GLUT families and also with other cellular proteins. Antibodies against multiple epitopes on the same protein to facilitate studies using interspecies cross reactivity. SGLT western blot positive control (PC-SGLT) is available in read-to-use SDS-PAGE sample buffer. The SGLT positive control appears as a diffuse band of 69-72 and co-migrates with rat jejunal sodium-dependent glucose transporter protein on a 10% SDS-PAGE.

References

1. [Ensembl release 48: Homo sapiens Ensembl protein family ENSF0000000509](#)

*For users who may require large amounts of the products listed above, please inquire about bulk material discounts.
This Product is for Research Use Only and is NOT intended for use in humans or clinical diagnosis.