



SGLT-1 Polyclonal Antibody

Catalog No	YP-Ab-00725
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;ELISA;IHC
Gene Name	SLC5A1
Protein Name	Sodium/glucose cotransporter 1
Immunogen	The antiserum was produced against synthesized peptide derived from human SGLT-1. AA range:525-574
Specificity	SGLT-1 Polyclonal Antibody detects endogenous levels of SGLT-1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000;IHC-p 1:50-300; ELISA 2000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	SLC5A1; NAGT; SGLT1; Sodium/glucose cotransporter 1; Na(+)/glucose cotransporter 1; High affinity sodium-glucose cotransporter; Solute carrier family 5 member 1
Observed Band	75kD
Cell Pathway	Apical cell membrane ; Multi-pass membrane protein .
Tissue Specificity	Expressed in intestine (PubMed:2490366). Expressed in endometrial cells (PubMed:28974690).
Function	disease:Defects in SLC5A1 are the cause of congenital glucose/galactose malabsorption (GGM) [MIM:606824]. GGM is an intestinal monosaccharide transporter deficiency. It is an autosomal recessive disorder manifesting itself within the first weeks of life. It is characterized by severe diarrhea and dehydration which are usually fatal unless glucose and galactose are eliminated from the diet.,function:Actively transports glucose into cells by Na(+) cotransport with a Na(+) to glucose coupling ratio of 2:1. Efficient substrate transport in mammalian kidney is provided by the concerted action of a low affinity high capacity and a high affinity low capacity Na(+)/glucose cotransporter arranged in series along kidney proximal tubules.,PTM:N-glycosylation is not necessary for the cotransporter function.,similarity:Belongs to the sodium:solute symporter (SSF) (TC 2.A.21) family.,tissue specificit



Background

This gene encodes a member of the sodium-dependent glucose transporter (SGLT) family. The encoded integral membrane protein is the primary mediator of dietary glucose and galactose uptake from the intestinal lumen. Mutations in this gene have been associated with glucose-galactose malabsorption. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012],

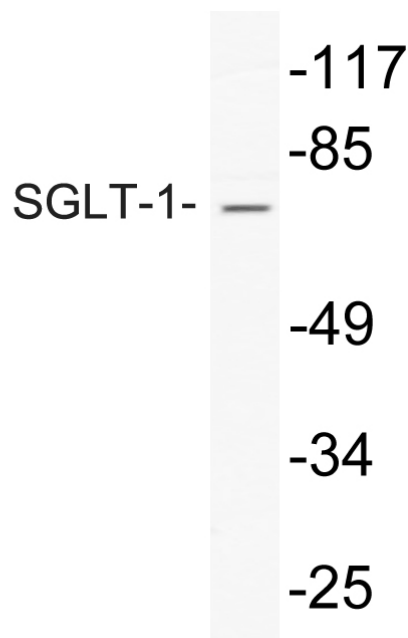
matters needing attention

Avoid repeated freezing and thawing!

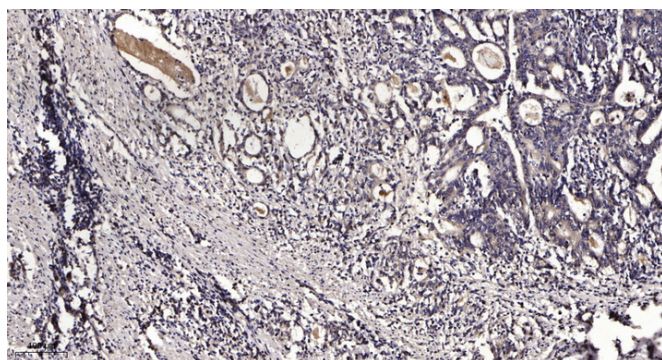
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western blot analysis of lysate from HepG2 cells, using SGLT-1 antibody.



Immunohistochemical analysis of paraffin-embedded human Gastric adenocarcinoma. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).