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# EB09310 - Goat Anti-SGLT1 Antibody

Size: 100µg specific antibody in 200µl



# **Target Protein**

**Principal Names:** SLC5A1, solute carrier family 5 (sodium/glucose cotransporter), member 1, D22S675, NAGT, SGLT1, Human Na+/glucose cotransporter 1 mRNA, complete cds, sodium/glucose cotransporter 1, solute carrier family 5 (sodium/glucose

transporter), member 1

Official Symbol: SLC5A1

Accession Number(s): NP\_000334.1

Human GenelD(s): 6523

### **Immunogen**

Peptide with sequence C-KETIEIETQVPEKKK, from the internal region of the protein sequence according to NP\_000334.1.

Please note the peptide is available for sale.

# **Purification and Storage**

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

# **Applications Tested**

Peptide ELISA: antibody detection limit dilution 1:4000.

**Western blot:** Approx 75kDa band observed in isolated Brush Border membranes from Human Kidney (calculated MW of 73.5kDa according to NP\_000334.1). Recommended concentration: 0.3-1μg/ml. Primary incubation was 1 hour. This antibody has been successfully used in WB on Mouse in the following papers, PMID: 34198013, 30503674 and 28174043.

**IHC:** In paraffin embedded Human Small Intestine shows staining of the glycocalix. Recommended concentration: 3-6μg/ml. This antibody has been successfully used in IHC on Mouse in the following paper, PMID: 34198013.

Immunocytochemistry: Fig A.Frozen sections of Human Kidney show staining of the brush borders in DCT, while only weak background was observed in Rat and Pig Kidney. Recommended concentration: 2-4ug/ml. Fig B.PFA-fixed 4µm cryosections of Human Kidney shows staining of the brush border of proximal straight tubules (S3 segments) in the outer stripe zone. The signal drops to background levels upon blocking with the immunizing peptide.

# **Species Reactivity**

Tested: Human, Mouse

Expected from sequence similarity: Human

### **Specific References**

This antibody has been successfully used in Western blot and IHC on Mouse:

Barun Das, Kevin Okamoto, John Rabalais, Jocelyn A. Young, Kim E.

Barrett, and Mamata Sivagnanam

Aberrant Epithelial Differentiation Contributes to Pathogenesis in a Murine Model of Congenital Tufting Enteropathy.

Cell Mol Gastroenterol Hepatol. 2021; 12(4): 1353-1371.

PMID: 34198013

# This antibody has been successfully used in Western blot on Mouse:

Yui Yamazaki, Kyoko Arita, Shinichi Harada, Shogo Tokuyama

Activation of c-Jun N-terminal kinase and p38 after cerebral ischemia upregulates cerebral sodium-glucose transporter type 1

Journal of Pharmacological Sciences (November 2018)

PMID: 30503674

### This antibody has been successfully used in Western blot on Mouse:

Yamazaki Y, Harada S, Wada T, Hagiwara T, Yoshida S, Tokuyama S

Sodium influx through cerebral sodium-glucose transporter type 1 exacerbates the development of Eur J Pharmacol. 2017 Mar 15;799:103-110.

PMID: 28174043

EB09310 (1µg/ml) staining of isolated Brush Border Membranes from Human Kidney (75µg protein) with (B) and without (A) blocking with the immunizing peptide. Detected by chemiluminescence. Data obtained from I. Vrhovac and I. Sabolic, Institute for Medical Research and Occupational Health, Zagreb, Croatia.

EB09310 (3.8µg/ml) staining of paraffin embedded Human Small Intestine. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Fig A: EB09310 (2.5µg/ml) overnight staining of PFA-perfused cryosections of Human Kidney. Microwaved antigen retrieval with citrate buffer pH 6, CY3-staining. Data obtained from I Vrhovac and I Sabolic, Institute for Medical Research and Occupational Health, Zagreb, Croatia.

Fig B: EB09310 (0.1ug/ml) staining of cryosections of Human Kidney. Data obtained from I Vrhovac and I Sabolic, Institute for Medical Research and Occupational Health, Zagreb, Croatia.