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**Research Use Only. Not for
diagnostic or therapeutic use.**

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 GeneID(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.

IHC: In paraffin embedded Human Small Intestine shows staining of the glycocalix. Recommended concentration: 3-6µg/ml.

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: 2-4µg/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

Expected from sequence similarity: Human

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.