

Goat anti-Slc5a1 (rat) Antibody

Item Number	dAP-2542
Target Molecule	Principle Name: Slc5a1 (rat); Official Symbol: Slc5a1; All Names and Symbols: Slc5a1; solute carrier family 5 (sodium/glucose cotransporter), member 1; MGC93553; Sglt1; Na(+)/glucose cotransporter 1; Solute carrier family 5, member alpha 1 (Na+/glucose cotransporter); high affinity sodium-glucose cotransporter; sodium/glucose cotra; Accession Number (s): NP_037165.1; Human Gene ID(s): ; Non-Human GeneID(s): 25552 (rat)
Immunogen	KDTIEIDAEAPQKEK, is from internal region
Applications	Pep ELISA, WB, IHC Species Tested: Rat
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Supplied As	lyophilized powder of 50ug or 100ug IgG; Reconstitute IgG with 100ul or 200ul sterile DI Water and final product will be formulated as 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.
Peptide ELISA	Peptide ELISA: antibody detection limit dilution 1 to 4000.
Western Blot	Western Blot: Approx 75-80kDa band observed in isolated Brush Border Membranes (BBM) of female Rat Kidney and approx 80kDa in BBM of female Rat Small Intestine (calculated MW of 73.1kDa according to NP_037165.1). Recommended concentration: 1-3µg/ml. Dat
IHC	Immunohistochemistry: Cryosections of paraformaldehyde fixed Rat Kidney shows strong staining of the brush-border in proximal straight tubules (S3 segments). Cryosections of paraformaldehyde fixed Rat Small Intestines shows staining of the brush-border
Reference	Reference(s): Hummel CS, Lu C, Loo DD, Hirayama BA, Voss AA, Wright EM. Glucose transport by human renal Na ⁺ /D-glucose cotransporters SGLT1 and SGLT2. Am J Physiol Cell Physiol. 2011 Jan;300(1):C14-21..PMID: 20980548->

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**