

## Goat anti-Slc5a1 (rat) Antibody

<b>Item Number</b>	dAP-2542
<b>Target Molecule</b>	Principle Name: Slc5a1 (rat); Official Symbol: Slc5a1; All Names and Symbols: Slc5a1; solute carrier family 5 (sodium/glucose cotransporter), member 1; MGC93553; Slt1; Na(+)glucose cotransporter 1; Solute carrier family 5, member alpha 1 (Na+/glucose cotransporter); high affinity sodium-glucose cotransporter; sodium/glucose contra; Accession Number (s): NP_037165.1; Human Gene ID(s): ; Non-Human GenelD(s): 25552 (rat)
<b>Immunogen</b>	KDTIEIDAEAPQKEK, is from internal region
<b>Applications</b>	Pep ELISA, WB, IHC Species Tested: Rat
<b>Purification</b>	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
<b>Supplied As</b>	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.
<b>Peptide ELISA</b>	Peptide ELISA: antibody detection limit dilution 1 to 4000.
<b>Western Blot</b>	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
<b>IHC</b>	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
<b>Reference</b>	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 end users! This product is sold for **Research Use Only**