

#14210 Store at -20°C

SGLT2 Antibody


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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 46-75	Source: Rabbit	UniProt ID: #P31639	Entrez-Gene Id: 6524
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Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>	
Specificity / Sensitivity	SGLT2 Antibody recognizes endogenous levels of total SGLT2 protein. This antibody does not recognize SGLT1 protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human SGLT2 protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Na(+)/glucose cotransporter 2 (SGLT2) is one of the two main glucose transporters in the kidney proximal convoluted tubule. It is activated by Protein Kinase A and Protein Kinase C, likely through phosphorylation of Ser624 (1,2). SGLT2 is responsible for the majority of glucose reabsorption in the kidney (3,4), and mutations in SGLT2 are known to cause familial renal glucosuria (5,6). SGLT2 is a therapeutic target for type 2 diabetes. Inhibitors of SGLT2 have been developed in order to treat people with type 2 diabetes (7).	
Background References	1. Feric, M. et al. (2011) <i>Am J Physiol Cell Physiol</i> 300, C755-70. 2. Ghezzi, C. and Wright, E.M. (2012) <i>Am J Physiol Cell Physiol</i> 303, C348-54. 3. Wells, R.G. et al. (1992) <i>Am J Physiol</i> 263, F459-65. 4. Wright, E.M. (2001) <i>Am J Physiol Renal Physiol</i> 280, F10-8. 5. Lee, H. et al. (2012) <i>Pediatr Nephrol</i> 27, 1091-5. 6. Andrianesis, V. and Doupis, J. (2013) <i>Expert Rev Clin Pharmacol</i> 6, 519-39. 7. Sheridan, C. (2012) <i>Nat Biotechnol</i> 30, 899-900.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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