SGLT1 Antibody	Cell Signaling TECHNOLOGY®			
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com		
	Support:	877-678-TECH (8324)		
#5042	Web:	info@cellsignal.com cellsignal.com		
9 #	3 Trask Lane Danvers Massachusetts 01923 USA			
For Research Use Only. Not for Use in Diagnostic Procedures.				

Applications: W	Reactivity: H R	Sensitivity: Endogenous	MW (kDa): 61	Source/Isotype: Rabbit	UniProt ID: #P13866	Entrez-Gene Id: 6523	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
Storage		Supplied in 10 mM sc 20°C. Do not aliquot t		5), 150 mM NaCl, 100 µg.	/ml BSA and 50% g	lycerol. Store at –	
Specificity/Sensi	tivity	SGLT1 Antibody detects endogenous levels of total SGLT1 protein.					
Source / Purifica	tion	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly247 of human SGLT1 protein. Antibodies were purified by protein A and peptide affinity chromatography.					
Background		Sodium/glucose cotransporter 1 (SGLT1) is an active glucose transporter, which utilizes sodium gradients to transport glucose into cells independent of extracellular glucose concentration. SGLT1 is an essential glucose active transport protein that helps maintain high intracellular glucose levels (1). Expression of SGLT1 is mainly seen in intestinal and kidney epithelial cells, although a recent study also characterized SGLT1 expression in cardiac myocytes (2). Abnormal SGLT1 expression may be associated with cases of type 2 diabetes mellitus and myocardial ischaemia (2). Mutation of the corresponding SGLT1 gene can result in congenital glucose/galactose malabsorption, which can lead to neonatal diarrhea and subsequent death if left untreated (3). A recent study of the role of EGFR in cancer cell survival indicates that EGFR can prevent autophagic cell death independent of EGFR kinase activity because the receptor interacts with and stabilizes SLGT1 to maintain basal intracellular glucose levels (4).					
Background Ref	erences	1. Wright, E.M. et al. (2. Banerjee, S.K. et al. 3. Martín, M.G. et al. (4. Weihua, Z. et al. (20	. (2009) <i>Cardiovasc I</i> 1996) <i>Nat Genet</i> 12	R <i>es</i> 84, 111-8. , 216-20.			
Species Reactivit	ty	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot Bu	ffer	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	,	W: Western Blotting					
Cross-Reactivity	Key	H: Human R: Rat					
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