Phospho-SGK (Ser78) Antibody



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

Applications: W	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 54 (Transfected only)	Source/Isotype: Rabbit	UniProt ID: #O00141	Entrez-Gene Id: 6446		
Product Usage Information		Application Western Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Sen	sitivity	Phospho-SGK (Ser78) Antibody detects transfected levels of SGK1 only when phosphorylated at serine 78. It will not detect isoforms SGK2 or SGK3.				orylated at serine		
Species predict based on 100% homology	ed to react sequence	Mouse, Rat						
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser78 of human SGK. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		Serum and glucocorticoid-inducible kinase (SGK) is a serine/threonine kinase closely related to Akt (1). SGK is rapidly induced in response to a variety of stimuli, including serum, glucocorticoid, follicle stimulating hormone, osmotic shock, and mineralocorticoids. SGK activation can be accomplished via HGF PI3K-dependent pathways and by integrin-mediated PI3K-independent pathways (2,3). Induction and activation of SGK has been implicated in activating the modulation of anti-apoptotic and cell cycle regulation (4-6). SGK also plays an important role in activating certain potassium, sodium, and chloride channels, suggesting its involvement in the regulation of processes such as cell survival, neuronal excitability, and renal sodium excretion (2). SGK is negatively regulated by ubiquitination and proteasome degradation (7). The MAP kinase family member BMK1 interacts with and activates SGK by phosphorylation at serine 78 (6).						
Background Re	eferences	 Webster, M.K. et al. (1993) <i>Mol Cell Biol</i> 13, 2031-40. Kobayashi, T. and Cohen, P. (1999) <i>Biochem J</i> 339 (Pt 2), 319-28. Park, J. et al. (1999) <i>EMBO J</i> 18, 3024-33. Brunet, A. et al. (2001) <i>Mol Cell Biol</i> 21, 952-65. Mikosz, C.A. et al. (2001) <i>J Biol Chem</i> 276, 16649-54. Hayashi, M. et al. (2001) <i>J Biol Chem</i> 276, 8631-4. Brickley, D.R. et al. (2002) <i>J Biol Chem</i> 277, 43064-70. 						
Species Reactiv	/ity	Species reactivity is d	etermined by testing	յ in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	uffer	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 Ke	ey	W: Western Blotting						
Cross-Reactivit	y Key	H: Human						
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