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# SGK Antibody

Store at -20C

#3272

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

<b>Applications:</b> W	<b>Reactivity:</b> H	<b>Sensitivity:</b> Transfected Only	<b>MW (kDa):</b> 54 (Transfected only)	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #O00141	<b>Entrez-Gene Id:</b> 6446
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	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.	
<b>Specificity/Sensitivity</b>	SGK Antibody detects transfected levels of SGK1, SGK2 and SGK3.	
<b>Species predicted to react based on 100% sequence homology</b>	Mouse, Rat	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding the carboxy-terminal domain of human SGK. Antibodies are purified by protein A and peptide affinity chromatography.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Webster, M.K. et al. (1993) <i>Mol Cell Biol</i> 13, 2031-40.</li> <li>2. Kobayashi, T. and Cohen, P. (1999) <i>Biochem J</i> 339 ( Pt 2), 319-28.</li> <li>3. Park, J. et al. (1999) <i>EMBO J</i> 18, 3024-33.</li> <li>4. Brunet, A. et al. (2001) <i>Mol Cell Biol</i> 21, 952-65.</li> <li>5. Mikosz, C.A. et al. (2001) <i>J Biol Chem</i> 276, 16649-54.</li> <li>6. Hayashi, M. et al. (2001) <i>J Biol Chem</i> 276, 8631-4.</li> <li>7. Brickley, D.R. et al. (2002) <i>J Biol Chem</i> 277, 43064-70.</li> </ol>	
<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
<b>Western Blot Buffer</b>	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.	
<b>Applications Key</b>	<b>W:</b> Western Blotting	
<b>Cross-Reactivity Key</b>	<b>H:</b> Human	
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