

SGK1 (D27C11) Rabbit mAb

✓ 100 µl
(10 western blots)

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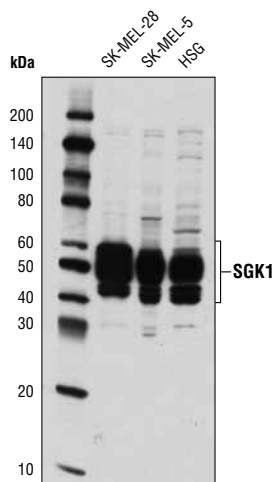
New 08/12

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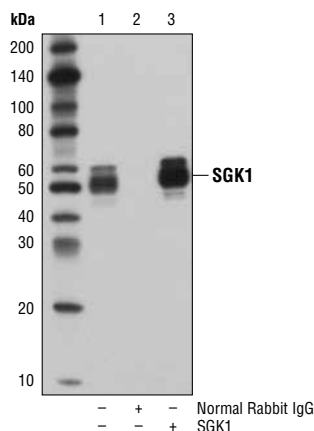
Applications W, IP Endogenous	Species Cross-Reactivity* H	Molecular Wt. 45-60 kDa	Isotype Rabbit IgG**
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Background: Serum and glucocorticoid-inducible kinase (SGK) is a serine/threonine kinase closely related to Akt (1). SGK is rapidly induced in response 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).

In addition to its membrane channel and carrier functions, SGK1 also regulates a broad range of targets, such as GSK-3, NEDD4, iNOS, AMPAR, PSD95, Tau, NF-κB, CREB, and FKHR-L1 (8,9).



Western blot analysis of extracts from SK-MEL-28, SK-MEL-5, and HSG cells using SGK1 (D27C11) Rabbit mAb.



Immunoprecipitation of SGK1 from SK-MEL-28 cell extracts, using Normal Rabbit IgG (lane 2) or SGK1 (D27C11) Rabbit mAb (lane 3). Lane 1 is 10% input. Western blot analysis was performed using SGK1 (D27C11) Rabbit mAb.

Specificity/Sensitivity: SGK1 (D27C11) Rabbit mAb recognizes endogenous levels of total SGK1 protein. This antibody does not cross-react with SGK2 or SGK3.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly420 of human SGK1 protein.

Entrez-Gene ID #6446
Swiss-Prot Acc. #O00141

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:100

For product specific protocols please see the web page for this product at www.cellsignaling.com.

Please visit www.cellsignaling.com for a complete listing of recommended complementary products.

Background References:

- (1) Webster, M.K. et al. (1993) *Mol. Cell. Biol.* 13, 2031-2040.
- (2) Kobayashi, T. and Cohen, P. (1999) *Biochem. J.* 339, 319-328.
- (3) Park, J. et al. (1999) *EMBO J.* 18, 3024-3033.
- (4) Brunet, A. et al. (2001) *Mol. Cell. Biol.* 21, 952-965.
- (5) Mikosz, C.A. et al. (2001) *J. Biol. Chem.* 276, 16649-16654.
- (6) Hayashi, M. et al. (2001) *J. Biol. Chem.* 276, 8631-8634.
- (7) Brickley, D.R. et al. (2002) *J. Biol. Chem.* 277, 43064-43070.
- (8) Lang, F. et al. (2009) *Expert Opin Ther Targets* 13, 1303-11.
- (9) Lang, F. et al. (2010) *J Physiol* 588, 3349-54.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey 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 All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.