Store at -20C

## Phospho-SGK3 (Thr320) (D30E6) Rabbit mAb



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Applications: WB	Reactivity: H	Sensitivity: Transfected Only	<b>MW (kDa):</b> 62	Source/Isotype: Rabbit IgG	UniProt ID: #Q96BR1	Entrez-Gene Id 23678
Product Usage Information	Ap	plication			Dilution	
	We	estern Blotting			1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sensitivity		Phospho-SGK3 (Thr320) (D30E6) Rabbit mAb detects overexpressed levels of SGK3 protein only when phosphorylated at Thr320.				
Species predicted react based on 100 sequence homolog	0%	use, Rat, Monkey				
Source / Purification	J	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr320 of human SGK3 protein.				
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).					

phosphorylation at Thr320 by PDK1 may be an Akt-independent manner of signaling in cancer (8).

## **Background References**

- 1. Webster, M.K. et al. (1993) Mol Cell Biol 13, 2031-40.
- 2. Kobayashi, T. and Cohen, P. (1999) Biochem J 339 ( Pt 2), 319-28.
- 3. Park, J. et al. (1999) EMBO J 18, 3024-33.
- 4. Brunet, A. et al. (2001) Mol Cell Biol 21, 952-65.
- 5. Mikosz, C.A. et al. (2001) J Biol Chem 276, 16649-54.
- 6. Hayashi, M. et al. (2001) J Biol Chem 276, 8631-4.
- 7. Brickley, D.R. et al. (2002) J Biol Chem 277, 43064-70.
- 8. Vasudevan, K.M. et al. (2009) Cancer Cell 16, 21-32.

**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

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key** 

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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Phospho-SGK3 (Thr320) (D30E6) Rabbit mAb (#5642) Datasheet Without Images Cell Signaling Technology

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