Store at -200

SGK3 (D42C2) Rabbit mAb



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Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 61	Source/Isotype: Rabbit IgG	UniProt ID: #Q96BR1	Entrez-Gene Id 23678	
Product Usage Information	Ар	Application			Dilution		
	We	Western Blotting			1:1000		
	Im	Immunoprecipitation			1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
Specificity / Sensitivity		SGK3 (D42C2) Rabbit mAb recognizes endogeneous levels of total SGK3 protein.					
Source / Purificat		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr487 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 Pl3K-dependent pathways and by integrin-mediated Pl3K-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). SGK3 has been shown to be a downstream signaling molecule in the Pl3K pathway. Its activation and phosphorylation at Thr320 by PDK1 has been suggested to 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 IP: Immunoprecipitation

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus 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

GP: Guinea Pig Rab: rabbit All: all species expected

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SGK3 (D42C2) Rabbit mAb (#8573) Datasheet Without Images Cell Signaling Technology

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