Store at -200

Phospho-SGK1 (Ser78) (D36D11) Rabbit mAb



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or Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: F WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 54	Source/Isotype: Rabbit IgG	UniProt ID: #O00141	Entrez-Gene Id: 6446	
Product Usage Information	Ap	plication			Dilution		
	We	estern Blotting			1:1000		
	lmı	munoprecipitation			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 / Sensitiv	,	Phospho-SGK1 (Ser78) (D36D11) Rabbit mAb detects endogeneous levels of SGK1 protein only when phosphorylated at Ser78. This antibody does not detect isoforms SGK2 or SGK3.					
Species predicted to react based on 100% sequence homology)	use, Rat, Monkey					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser78 of human SGK1 protein.					
Background	SGH stim PI3I activ regu cha exci deg	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 Referen	ices 1. W	/ebster, M.K. et al. ((1993) Mol Cell B	iol 13, 2031-40.			

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- 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.
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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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