#9591 Store at -20C

Phospho-MSK1 (Ser376) Antibody



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Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 90	Source: Rabbit	UniProt ID: #O75582	Entrez-Gene Id: 9252	
Product Usage Information	Ap	plication			Dilution		
mormation	We	stern Blotting			1:1000		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sen	Ser	Phospho-MSK1 (Ser376) Antibody detects endogenous levels of MSK1 only when phosphorylated at Ser376. The antibody does not recognize MSK1 phosphorylated at other sites, nor does it recognize phosphorylated RSK1, RSK2 or RSK3. Thisantibody may cross react with MSK2.					
Source / Purifica	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser376 of human MSK1. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	to g dom critic	MSK1, a mitogen and stress activated protein kinase, is activated by Erk as well as p38 MAPK in response to growth factors and cellular stress, respectively (1). MSK1 resembles RSK because it has two kinase domains connected by a regulatory linker region (2). Phosphorylation of RSK1 at Ser364 and Ser381 is critical for RSK1 activity (3). These sites are analogous to Ser360 and Ser376 of MSK1, which may be important for MSK1 activity as well.					
Background Rei	2. P 3. D 4. M	 Deak, M. et al. (1998) EMBO J. 17, 4426-4441. Pierrat, B. et al. (1998) J. Biol. Chem. 273, 29661-29671. Dalby, K. et al. (1998) J. Biol. Chem. 273, 1496-1505. Markou, T. and Lazou, A. (2002) Biochem J 365, 757-63. Markou, T. et al. (2004) J Mol Cell Cardiol 37, 1001-11. 					

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

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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