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Store at -20C
#9594

Phospho-MSK1 (Ser360) Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 90	Source/Isotype: Rabbit	UniProt ID: #O75582	Entrez-Gene Id: 9252
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Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

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

Specificity/Sensitivity

Phospho-MSK1 (Ser360) Antibody detects transfected MSK1 only when phosphorylated at Ser360. This antibody does not recognize MSK1 phosphorylated at other sites, nor does it cross-react with phosphorylated RSK1, RSK2 or RSK3.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser360 of human MSK1. Antibodies are purified by protein A and peptide affinity chromatography.

Background

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 References

1. Deak, M. et al. (1998) *EMBO J.* 17, 4426-4441.
2. Pierrat, B. et al. (1998) *J. Biol. Chem.* 273, 29661-29671.
3. Dalby, K. et al. (1998) *J. Biol. Chem.* 273, 1496-1505.
4. Markou, T. and Lazou, A. (2002) *Biochem J* 365, 757-63.

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

W: Western Blotting

Cross-Reactivity Key

H: Human

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