

1987

Phospho-MAPK Substrates (PXTP) (46G11) Rabbit mAb



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

Applications: W, IP, IHC-P, FC-FP, E- P	Reactivity: H All	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	
Product Usage		Application		Dilution
Information		Western Blotting		1:1000
		Immunoprecipitation		1:50
		Immunohistochemistry (Paraffin)		1:600
		Flow Cytometry (Fixed/Permeabilized)		1:100
		Peptide ELISA (DELFIA)		1:1000
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		Phospho-MAPK Substrates (PXT*P) (46G11) Rabbit mAb detects phospho-threonine in a PXT*P motif. The antibody is phospho-specific, and does not react with phospho-serine- or phospho-tyrosine-containing peptides/proteins. (U.S. Patent No's.: 6,441,140; 6,982,318; 7,259,022; 7,344,714; U.S.S.N. 11,484,485; and all foreign equivalents.)		
Source / Purification		Monoclonal antibody is produced by immunizing animals with synthetic phospho-MAPK/CDK substrate peptides .		
Background		The MAPK and CDK families of serine/threonine protein kinases play important roles in proliferation and cell cycle control. These kinases phosphorylate threonine or serine followed by a proline residue (1-3). MAPK phosphorylates substrates with the consensus sequence PX(S/T)P, and CDKs phosphorylate substrates containing the consensus sequence (S/T)PXR/K. Cell Signaling Technology has developed antibodies that bind to phospho-threonine followed by proline, motifs PXS*/T*P and/or S*PXR/K, for use in the study and discovery of new MAPK and CDK substrates (4,5).		
Background References		 Cross, T.G. et al. (2000) Exp Cell Res 256, 34-41. Reynolds, C.H. et al. (2000) J Neurochem 74, 1587-95. Seger, R. and Krebs, E.G. (1995) FASEB J 9, 726-35. Holmes, J.K. and Solomon, M.J. (1996) J Biol Chem 271, 25240-6. Songyang, Z. et al. (1996) Mol Cell Biol 16, 6486-93. 		

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 IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) FC-FP: Flow

Cytometry (Fixed/Permeabilized) E-P: Peptide ELISA (DELFIA)

Cross-Reactivity Key H: Human All: All Species Expected

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