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PTEN (D4.3) XP[®] Rabbit mAb (Sepharose[®] Bead Conjugate)



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

Applications: IP	Reactivity: All	Sensitivity: Endogenous	MW (kDa): 54	Source/Isotype: Rabbit IgG	UniProt ID: #P60484	Entrez-Gene Id: 5728		
Product Usage Information		Application Immunoprecipitation		Dilution 1:20				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol. Store at –20°C. Do not aliquot the antibodies.						
Specificity/Sensitivity		PTEN (D4.3) XP [®] Rabbit mAb (Sepharose [®] Bead Conjugate) detects endogenous levels of total PTEN protein.						
Species predict based on 100% homology		Chicken						
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues in the carboxy-terminal sequence of human PTEN.						
Description		This Cell Signaling Technology antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated Sepharose [®] beads. PTEN (D4.3) XP [®] Rabbit mAb (Sepharose [®] Bead Conjugate) is useful for the immunoprecipitation of PTEN protein.						
Background	EkgroundPTEN (phosphatase and tensin homologue deleted on chromosome ten), also referred to as MMA (mutated in multiple advanced cancers) phosphatase, is a tumor suppressor implicated in a wide variety of human cancers (1). PTEN encodes a 403 amino acid polypeptide originally described as dual-specificity protein phosphatase (2). The main substrates of PTEN are inositol phospholipids generated by the activation of the phosphoinositide 3-kinase (PI3K) (3). PTEN is a major negative regulator of the PI3K/Akt signaling pathway (1,4,5). PTEN possesses a carboxy-terminal, noncataly regulatory domain with three phosphorylation sites (Ser380, Thr382, and Thr383) that regulate PI stability and may affect its biological activity (6,7). PTEN regulates p53 protein levels and activity (8 is involved in G protein-coupled signaling during chemotaxis (9,10).					ed in a wide described as a ospholipids jor negative nal, noncatalytic at regulate PTEN		
Background Re	ackground References 1. Cantley, L.C. and Neel, B.G. (1999) Proc Natl Acad Sci USA 96, 4240-5. 2. Myers, M.P. et al. (1997) Proc Natl Acad Sci USA 94, 9052-7. 3. Myers, M.P. et al. (1998) Proc Natl Acad Sci USA 95, 13513-8. 4. Wan, X. and Helman, L.J. (2003) Oncogene 22, 8205-11. 5. Wu, X. et al. (1998) Proc Natl Acad Sci USA 95, 15587-91. 6. Vazquez, F. et al. (2000) Mol Cell Biol 20, 5010-8. 7. Torres, J. and Pulido, R. (2001) J Biol Chem 276, 993-8. 8. Freeman, D.J. et al. (2003) Cancer Cell 3, 117-30. 9. Funamoto, S. et al. (2002) Cell 109, 611-23. 10. Iijima, M. and Devreotes, P. (2002) Cell 109, 599-610.							
Species Reactiv	vity	Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Applications Ke	èy	IP: Immunoprecipitation						
Cross-Reactivity Key All: All Species Expected								
Trademarks an	d Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
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