

PTENPolyclonal Antibody

Catalog Number:	E92113
Amount:	100ul
Background:	PTEN (phosphatase and tensin homologue deleted on chromosome ten), also referred to as
	MMAC (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 a 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, noncatalytic regulatory
	domain with three phosphorylation sites (Ser380, Thr382, and Thr383) that regulate PTEN
	stability and may affect its biological activity (6,7). PTEN regulates p53 protein levels and
	activity (8) and is involved in G protein-coupled signaling during chemotaxis (9,10).
Species:	Rabbit
lsotype:	lgG
Storage/Stability:	Store at -20oC or -80oC. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide,
-	50% glycerol, pH7.3.
Synonyms:	BZS; DEC; GLM2; MHAM; TEP1; MMAC1; PTEN1; 10q23del;
Immunogen:	Recombinant proteinof human PTEN
Purification:	Affinity purification
Reactivity:	H M R WB IHC
Applications: Molecular Weight:	47kDa
Swiss-Prot No. :	P60484
Gene ID:	5728
References:	1. Cantley, L.C. and Neel, B.G. (1999) Proc Natl Acad Sci USA 96, 4240-5. 2. Myers, M.P. et
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	Sci USA 95, 13513-8. 4. Wan, X. and Helman, L.J. (2003) Oncogene 22, 8205-11. 5. Wu, X.
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	20, 5010-8. 7. Torres, J. and Pulido, R. (2001) J Biol Chem 276, 993-8. 8. Freeman, D.J. et
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