AssayGenie

CABP0998

Product Information								
Product SKU:	CABP0998	Gene ID:	5728	Size		20uL, 100uL		
Clone No:	ARC1542	Host Species:	Rabbit	React	ivity:	Human		
Additional Information								
Observed MW:	54kDa		Conjugate:	Unconjugated				
Calculated MW	: 47kDa		lsotype:	lgG				

Immunogen Information

Background:	This gene was identified as a tumor suppressor that is mutated in a large number of cancers at high			
	frequency. The protein encoded by this gene is a phosphatidylinositol-3,4,5-trisphosphate 3-			
	phosphatase. It contains a tensin like domain as well as a catalytic domain similar to that of the dual			
	specificity protein tyrosine phosphatases. Unlike most of the protein tyrosine phosphatases, this protein			
	preferentially dephosphorylates phosphoinositide substrates. It negatively regulates intracellular levels			
	of phosphatidylinositol-3,4,5-trisphosphate in cells and functions as a tumor suppressor by negative			
	regulating AKT/PKB signaling pathway. The use of a non-canonical (CUG) upstream initiation sit			
	produces a longer isoform that initiates translation with a leucine, and is thought to be preferentially			
	associated with the mitochondrial inner membrane. This longer isoform may help regulate energy			
	metabolism in the mitochondria. A pseudogene of this gene is found on chromosome 9. Alternative			
	splicing and the use of multiple translation start codons results in multiple transcript variants encoding			
	different isoforms.			
Recommended Dilution:	WB,1:500 - 1:2000			
Synonyms:	BZS; DEC; CWS1; GLM2; MHAM; TEP1; MMAC1; PTEN1; 10q23del; PTENbeta; Phospho-PTEN-S380			
Purifcation Method:	Affinity purification			
Immunogen:	A synthetic phosphorylated peptide around S380 of human PTEN (P60484).			
Storage:	Store at -20°C. Avoid freeze / thaw cycles.Buffer: PBS with 0.02% sodium azide,0.05% BSA,50%			
	glycerol,pH7.3.			