CAB21892



Product Information

Product SKU:	CAB21892	Gene ID:	5728	Size	:	20uL, 100uL		
Clone No:	ARC0364	Host Species:	Rabbit	Read	ctivity:	Human,Mouse,Rat		
Additional Information								
Observed MW:	55kDa		Conjugate:	Unconjugated				
Calculated MW	2: 47kDa		lsotype:	IgG				

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 site			
	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 - 1:1000			
Synonyms:	BZS; DEC; CWS1; GLM2; MHAM; TEP1; MMAC1; PTEN1; 10q23del; PTENbeta; PTEN			
Purifcation Method:	od: Affinity purification			
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 304-403 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.			