

CABP1231

Product Information

Product SKU:	CABP1231	Gene ID:	5728		Size:	20uL, 100uL	
Clone No:	-	Host Species:	Rabbit		Reactivity :	Human, Mouse, Rat	
Additional Information							
Observed MW:	54kDa		Conjugate:	Unconjugated	k		

lsotype:

lgG

Immunogen Information

47kDa

Calculated MW:

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 negatively
	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 IHC-P,1:50 - 1:200
Synonyms:	BZS; DEC; CWS1; GLM2; MHAM; TEP1; MMAC1; PTEN1; 10q23del; PTENbeta; Phospho-PTEN-
	S380/T382/383
Purifcation Method:	Affinity purification
Immunogen:	A synthetic phosphorylated peptide around S380 & T382 & T383 of human PTEN (NP_000305.3).
Storage:	Store at -20°C. Avoid freeze / thaw cycles.Buffer: PBS with 0.01% thimerosal,50% glycerol,pH7.3.