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Anti-PTEN Rabbit mAb [51C33]

Catalog No.: A52285

Basic Information

Catalog No. (Cat.No.)	A52285
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Synonyms	PTEN,Phosphatase and tensin homolog,MMAC1,TEP1,TEN1

Product Information

Target	PTEN
Molecular Weight(Calculated)	47 kDa
Molecular Weight(Observed)	56 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	51C33
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IHC	1:200-1:1000
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Phosphatase and tensin homolog
Gene Name	*PTEN*
Domain	NA
Background	PTEN (Phosphatase and tensin homolog) is a dual-specificity phosphatase tumor-suppressor family protein that dephosphorylates PIP3 to negatively restrain PI3K-AKT signaling. PTEN converts plasma-membrane PIP3 back to PIP2 to counteract PI3K output and constrain excessive AKT-driven proliferation, survival and metabolism. It also exhibits protein-phosphatase activity. Genomic deletion, mutation or epigenetic silencing of PTEN represents one of the most frequent tumor-suppressor defects in human cancers. Germline PTEN mutations cause PTEN hamartoma tumor syndrome. PTEN shuttles between cytoplasm and nucleus; nuclear PTEN preserves genome stability.