

Datasheet: MCA6312

Description:	RABBIT ANTI PTEN TUMOR SUPPRESSOR PROTEIN
Specificity:	PTEN TUMOR SUPPRESSOR PROTEIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	RM265
Isotype:	IgG
Quantity:	0.1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin	▪			1/1000 - 1/2000
Western Blotting	▪			1/1000 - 1/2000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Based on sequence similarity, is expected to react with: Mouse N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography of Protein A from animal origin-free culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide 1% Bovine Serum Albumin

50% Glycerol

Immunogen	A peptide corresponding to the C-terminus of Human PTEN tumor suppressor protein
External Database Links	UniProt: P60484 Related reagents Entrez Gene: 5728 PTEN Related reagents
Synonyms	MMAC1, TEP1
Specificity	Rabbit anti Human PTEN tumor suppressor protein antibody recognizes phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN, also known as MMAC1, TEP1. PTEN is a lipid and protein phosphatase that can suppress the PI3K/AKT signaling pathway, which plays roles in regulating cell metabolism, survival, proliferation, apoptosis, growth and migration. In this way, PTEN acts as a tumor suppressor, and loss of PTEN drives many human cancers. Mutations in PIK3CA, PTEN, and/or AKT1 are present in over 40% of uterine, lung, breast, prostate, brain, and head and neck cancers (Chang et al. 2019). PTEN also has important roles in immune signaling pathways, regulates immune cell development, and helps generate antiviral responses (Chen and Guo 2017). In the nucleus, PTEN has also been found to mediate cellular proliferation and stabilize the genome (Morotti et al. 2015).
Storage	Store at -20°C only. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10048 available at: https://www.bio-rad-antibodies.com/SDS/MCA6312 10048
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

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batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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