

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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To find a

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

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