

## Datasheet: MCA6312

**BATCH NUMBER 155783**

<b>Description:</b>	RABBIT ANTI PTEN TUMOR SUPPRESSOR PROTEIN
<b>Specificity:</b>	PTEN TUMOR SUPPRESSOR PROTEIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	RM265
<b>Isotype:</b>	IgG
<b>Quantity:</b>	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](http://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

0.09% Sodium Azide

<b>Stabilisers</b>	1% Bovine Serum Albumin 50% Glycerol
<b>Immunogen</b>	A peptide corresponding to the C-terminus of Human PTEN tumor suppressor protein
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P60484</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">5728</a>    PTEN    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	MMAC1, TEP1
<b>Specificity</b>	<p><b>Rabbit anti Human PTEN tumor suppressor protein antibody</b> 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).</p>
<b>Storage</b>	<p>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</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10048 available at:  <a href="https://www.bio-rad-antibodies.com/SDS/MCA6312">https://www.bio-rad-antibodies.com/SDS/MCA6312</a>  10048</p>
<b>Regulatory</b>	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](#)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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