



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Mouse Anti-PTEN Antibody

Catalog No. 130-10004	Isotype/Clone: Mouse IgG1/NA	Species: Human	Accession No: P60484
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Description

PTEN, phosphatase and tensin homolog (TEP1), is a dual specificity protein/3-lipid phosphatase that functions as a tumor suppressor and negative growth regulator. Inactivation of PTEN is associated with a variety cancers including glioblastoma, melanoma, and prostate, breast, and endometrial cancers. The PTEN gene product is a putative protein tyrosine phosphatase that is localized to the cytoplasm and shares extensive homology with the cytoskeletal proteins tensin and auxilin.

Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	*			1:1000-5000
Western Blotting	*			1:1000-2000
Immunohistology - frozen			#	
Immunohistology -paraffin	*			1:50-100
Immunohistology - resin			#	
Immunoprecipitation			#	
Flow Cytometry			#	
Immunofluorence staining			#	
Neutralization			#	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Preparation

Immunogen was recombinant protein derived from human PTEN. This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with the immunogen. The IgG fraction of tissue culture supernatant was purified by Protein G/A affinity chromatography.

Specificity

This antibody was selected for its ability to detect human PTEN. In ELISA and Western Blot, this antibody showed specifically binding to human recombinant protein, and there was cross-reactivity with tested proteins from other species.

Reconstitution

Supplied as lyophilized and purified antibody originally containing PBS, without **Preservative Stabilizers**, liking Sodium Azide. *It final concentration is indicated in shipping vial.*

The antibody is stable for at least years from the data of receipt when stored at -20°C to -70°C . Reconstituted antibody (suggesting with sterile PBS) can also be aliquotted and stored frozen at -20°C to -70°C in a manual defrost freezer for months without detectable loss activity. Upon reconstitution, the antibody can be stored at 4°C for 1 month. **Please avoid freeze-thaw cycles.**

Storage

Store at -20°C , if not intended for use within a month, keep it at 4°C and minimize freezing and thawing when use.

Reference

Steck, P.A., et al. 1997. Identification of a candidate tumour suppressor gene, MMAC1, at chromosome 10q23.3 that is mutated in multiple advanced cancers. *Nat. Genet.* 15: 356-362.

Li, J., et al. 1997. PTEN, a putative protein tyrosine phosphatase gene mutated in human brain, breast, and prostate cancer. *Science* 275:1943-1947.

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