

## Anti-PTEN Rabbit Monoclonal Antibody

### Introduction

Tumor suppressor. Acts as a dual-specificity protein phosphatase, dephosphorylating tyrosine-, serine- and threonine-phosphorylated proteins. Also acts as a lipid phosphatase, removing the phosphate in the D3 position of the inositol ring from phosphatidylinositol 3,4,5-trisphosphate, phosphatidylinositol 3,4-diphosphate, phosphatidylinositol 3-phosphate and inositol 1,3,4,5-tetrakisphosphate with order of substrate preference in vitro  $\text{PtdIns}(3,4,5)\text{P}_3 > \text{PtdIns}(3,4)\text{P}_2 > \text{PtdIns}3\text{P} > \text{Ins}(1,3,4,5)\text{P}_4$ .

### Product parameters

|                   |   |
|-------------------|---|
| Alternative Names | PTEN; MMAC1; TEP1; Phosphatidylinositol 3; 4; 5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN; Mutated in multiple advanced cancers 1; Phosphatase and tensin homolog |
| Gene ID           | 5728  |
| Gene Name         | PTEN  |
| SwissProt ID      | P60484  |
| Host              | Rabbit  |
| Reactivity        | Human, Mouse, Rat   |
| Molecular Weight  | Calculated MW: 47 kDa; Observed MW: 54 kDa  |
| Conjugation       | Unconjugated  |
| Ex                | -   |
| Em                | -   |
| Modification      | Unmodified  |
| Clonality         | IgG   |
| Isotype           | Monoclonal Antibody   |
| Clonality No.     | AP-4F10H12  |
| Form              | Liquid  |
| Concentration     | See label   |
| Carrier           | Carrier Free  |
| Immunogen         | A synthesized peptide derived from human PTEN   |
| Purification      | Affinity Chromatography   |
| Buffer System     | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.   |
| Application       | WB, IHC-P, ICC/IF   |
| Dilution Ratio    | WB: 1/500-1/1000 IHC: 1/50-1/100 IF: 1/50-1/200   |
| Research Field    | Cell Biology  |

|                    |                                  |
|--------------------|----------------------------------|
| Product Categories | Primary antibody                 |
| Shipping           | Blue ice                         |
| Storage            | -20°C                            |
| Expiration Date    | 12 months                        |
| Note               | Please avoid freeze-thaw cycles. |



## Protocol

Configure the product according to the application range and recommended dilution ratio.

**\*Note:** The primary antibody dilution buffer options: WB - Primary Antibody Dilution Buffer (Cat. #: K1200, Not for HRP/AP conjugated antibodies), Immunostaining - Immunol Staining Primary Antibody Dilution Solution (Cat. #: K4655).

## Note

1. This product is for scientific research use only.



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