

## Recombinant Mouse Pten Protein, His-tagged

**Cat. No.** Pten-1996M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Pten Protein (Thr2-Val403) with N-His tag was expressed in E. coli.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	Thr2-Val403
<b>Description</b>	This gene encodes a phosphatase with dual activity against phospholipids and proteins, and acts as a tumor-suppressor. The protein contains four structural domains, a PIP2-binding domain, a catalytic tensin-type phosphatase domain, a C2 tensin-type domain and a PDZ-binding domain. The protein belongs to the protein tyrosine phosphatase family. Deletion of this gene in mice contribute to tumorigenesis in multiple tissues.
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 48.3 kDa Accurate Molecular Mass: 55 kDa
<b>Purity</b>	> 90%
<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.

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<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Storage Buffer</b>	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Pten phosphatase and tensin homolog [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	<a href="#">Pten</a>
<b>Synonyms</b>	PTEN; phosphatase and tensin homolog; phosphatidylinositol-3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN; mutated in multiple advanced cancers 1; TEP1; MMAC1; AI463227; 2310035O07Rik; A130070J02Rik; B430203M17Rik; MGC183880;
<b>Gene ID</b>	<a href="#">19211</a>
<b>mRNA Refseq</b>	<a href="#">NM_008960</a>
<b>Protein Refseq</b>	<a href="#">NP_032986</a>

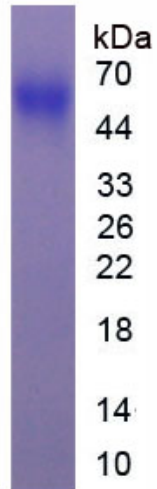
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UniProt ID

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