

Recombinant Mouse Pten Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Mouse Pten Protein (Thr2-Val403) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Thr2-Val403
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 48.3 kDa Accurate Molecular Mass: 55 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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Stability	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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Pten phosphatase and tensin homolog [Mus musculus (house mouse)]
Official Symbol	Pten
Synonyms	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;
Gene ID	19211
mRNA Refseq	NM_008960
Protein Refseq	NP_032986

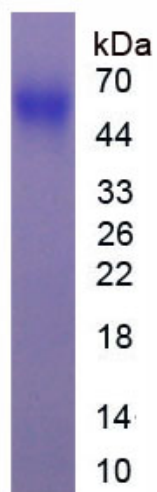
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UniProt ID

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