

Recombinant Mouse Enpp1 protein, His & GST-tagged

Cat. No. Enpp1-1415M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Enpp1 aa. (Gly568~Asp789 fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Gly568~Asp789
Description	This gene encodes a member of the nucleoside pyrophosphatase/phosphodiesterase family of enzymes that catalyzes the hydrolysis of pyrophosphate and phosphodiester bonds in nucleotide triphosphates and oligonucleotides, respectively, to generate nucleoside 5'-monophosphates. The encoded protein is a type II transmembrane glycoprotein that negatively regulates bone mineralization. Mice harboring a nonsense mutation in this gene, termed tiptoe walking (ttw), exhibit ectopic ossification of the spinal ligaments. The encoded protein binds to the insulin receptor, inhibits downstream signaling events and induces insulin resistance and glucose tolerance. This gene is located adjacent to a paralog on chromosome 10. Alternative splicing results in multiple transcript variants encoding different isoforms.
Form	Freeze-dried powder
Molecular Mass	56kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method)

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Purity	>95%
Characteristic	The isoelectric point is 6.3.
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
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°C 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°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Enpp1 ectonucleotide pyrophosphatase/phosphodiesterase 1 [Mus musculus (house mouse)]
Official Symbol	Enpp1
Synonyms	Enpp1; ectonucleotide pyrophosphatase/phosphodiesterase 1; Pca; ttw; twy; M6S1; NPP1; Npps; PC-1; Ly-41; Pca-1; Pdnp1; C76301; CD203c; E-NPP1; E-NPP 1;

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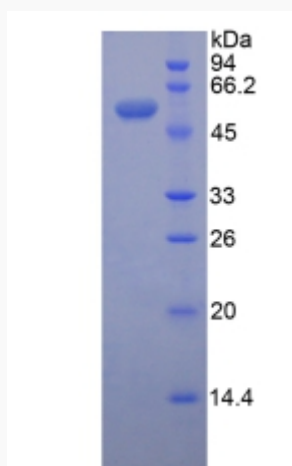
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AI428932; 4833416E15Rik; ectonucleotide pyrophosphatase/phosphodiesterase family member 1; lymphocyte antigen 41; phosphodiesterase I/nucleotide pyrophosphatase 1; plasma-cell membrane glycoprotein PC-1; tiptoe walking

Gene ID	18605
mRNA Refseq	NM_001308327.1
Protein Refseq	NP_001295256.1
UniProt ID	P06802

SDS-PAGE



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