

Recombinant Rat ENPEP cell lysate, His Tag

Cat. No. ENPEP-001RCL Lot. No. (See product label)

SPECIFICATION

Product Overview A DNA sequence encoding the mature form of rat ENPEP (P50123-1) (Arg41-Pro945) was expressed, with a polyhistidine tag at the N-terminus. Baculovirus-Insect Cells transfected lysate in which Rat ENPEP / Aminopeptidase A (aa 41-945) has been over-expressed. The whole cell lysate is provided in 1X Sample Buffer. Browse all transfected cell lysate positive controls

Species Rat

Source Insect Cells

ProteinLength 41-945 a.a.

Preparation method Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.

Lysis buffer Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF

Quality control Testing 12.5% SDS-PAGE Stained with Coomassie Blue

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Recommended Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube. 2. Re-dissolve the pellet using 200µL pure water and boiled for 2-5 min. 3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. Notes: The lysate is ready to load on SDS-PAGE for Western blot application. If dissociating conditions are required, add reducing agent prior to heating.
Stability	Samples are stable for up to twelve months from date of receipt at -80°C.
Storage Buffer	In modified RIPA Lysis Buffer
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Applications	WB: Use at an assay dependent dilution. Not yet tested in other applications. Optimal dilutions/concentrations should be determined by the end user.

GENE INFORMATION

Gene Name	Enpep glutamyl aminopeptidase [Rattus norvegicus]
Official Symbol	ENPEP
Synonyms	ENPEP; glutamyl aminopeptidase; EAP; AP-A; aminopeptidase A;
Gene ID	64017
mRNA Refseq	NM_022251
Protein Refseq	NP_071587
Pathway	Renin-angiotensin system, organism-specific biosystem; Renin-angiotensin system,

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conserved biosystem;

Function

aminopeptidase activity; metal ion binding; metallopeptidase activity; peptidase activity; peptide binding; zinc ion binding;

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