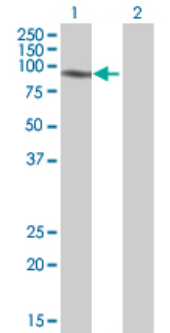
ENPP1 293T Cell Transient Overexpression Lysate(Denatured)

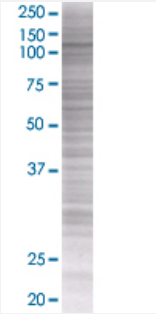
Catalog # H00005167-T01 Size 100 uL

Applications



Western Blot

Lane 1: ENPP1 transfected lysate (99.9 KDa)
Lane 2: Non-transfected lysate.



SDS-PAGE Gel

ENPP1 transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-ENPP1 full-length
Host	Human
Theoretical MW (kDa)	96.14
Interspecies Antigen Sequence	Mouse (81); Rat (80)

Quality Control Testing	Transient overexpression cell lysate was tested with Anti-ENPP1 antibody (H00005167-B01) by Western Blots. Western Blot Lane 1: ENPP1 transfected lysate (99.9 KDa) Lane 2: Non-transfected lysate. SDS-PAGE Gel ENPP1 transfected lysate.
Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot

Gene Info — ENPP1

Entrez GeneID	5167
GeneBank Accession#	NM_006208
Protein Accession#	NP_006199
Gene Name	ENPP1
Gene Alias	M6S1, NPP1, NPPS, PC-1, PCA1, PDNP1
Gene Description	ectonucleotide pyrophosphatase/phosphodiesterase 1
Omim ID	125853 173335 208000 601665 602475
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the ecto-nucleotide pyrophosphatase/phosphodiesterase (ENPP) family. The encoded protein is a type II transmembrane glycoprotein comprising two identical disulfide-bonded subunits. This protein has broad specificity and cleaves a variety of substrates, including phosphodiester bonds of nucleotides and nucleotide sugars and pyrophosphate bonds of nucleotides and nucleotide sugars. This protein may function to hydrolyze nucleoside 5' triphosphates to their corresponding monophosphates and may also hydrolyze diadenosine polyphosphates. Mutations in this gene have been associated with 'idiopathic' infantile arterial calcification, ossification of the posterior longitudinal ligament of the spine (OPLL), and insulin resistance. [provided by RefSeq

Other Designations	Ly-41 antigen|OTTHUMP00000043194|alkaline phosphodiesterase 1|membrane component, chromosome 6, surface marker 1|phosphodiesterase I/nucleotide pyrophosphatase 1|plasma-cell membrane glycoprotein 1

Pathway

- Metabolic pathways
- Nicotinate and nicotinamide metabolism
- Pantothenate and CoA biosynthesis
- Purine metabolism
- Riboflavin metabolism
- Starch and sucrose metabolism

Disease

- Albuminuria
- Alzheimer disease
- Aortic Diseases
- Arteriosclerosis
- Atherosclerosis
- Body Weight
- Calcinosis
- Cardiovascular Diseases
- Chondrocalcinosis
- Coronary Artery Disease
- Coronary Disease
- Diabetes Complications
- Diabetes Mellitus

- Diabetic Nephropathies
- Disease Progression
- Edema
- Fatty Liver
- Genetic Predisposition to Disease
- Glomerulonephritis
- Glucose Intolerance
- Hepatitis C
- Hyperglycemia
- Hyperinsulinism
- Hyperlipidemias
- Hypertension
- Hypertriglyceridemia
- Hypertrophy
- Insulin Resistance
- Kidney Failure
- Metabolic Diseases
- Metabolic Syndrome X
- Myocardial Infarction
- Myocardial Ischemia
- Neoplasms
- Obesity
- Ossification of Posterior Longitudinal Ligament
- Osteoarthritis
- Osteoporosis
- Overweight

- Peripheral Vascular Diseases
- Polycystic Ovary Syndrome
- Pre-Eclampsia
- Proteinuria
- Psychotic Disorders
- Renal Insufficiency
- Schizophrenia
- Urinary Bladder Neoplasms
- Viremia
- Werner syndrome