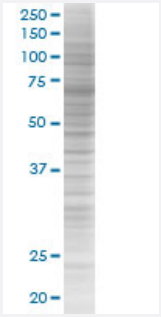
ALPL 293T Cell Transient Overexpression Lysate(Denatured)

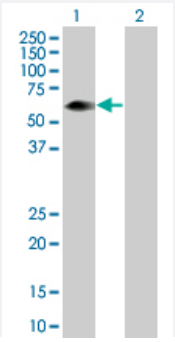
Catalog # H00000249-T01 Size 100 uL

Applications



SDS-PAGE Gel

ALPL transfected lysate.



Western Blot

Lane 1: ALPL transfected lysate (57.75 KDa)
Lane 2: Non-transfected lysate.

Specification

Transfected Cell Line	293T
Plasmid	pCMV-ALPL full-length
Host	Human
Theoretical MW (kDa)	57.75
Interspecies Antigen Sequence	Mouse (91)

Quality Control Testing	Transient overexpression cell lysate was tested with Anti-ALPL antibody (H00000249-B01) by Western Blots. SDS-PAGE Gel ALPL transfected lysate. Western Blot Lane 1: ALPL transfected lysate (57.75 KDa) Lane 2: Non-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 — ALPL

Entrez GeneID	249
GeneBank Accession#	ENST00000344573
Protein Accession#	-
Gene Name	ALPL
Gene Alias	AP-TNAP, FLJ40094, FLJ93059, HOPS, MGC161443, MGC167935, TNAP, TNSALP
Gene Description	alkaline phosphatase, liver/bone/kidney
Omim ID	146300 171760 241500 241510
Gene Ontology	Hyperlink

Gene Summary	There are at least four distinct but related alkaline phosphatases: intestinal, placental, placental-like, and liver/bone/kidney (tissue non-specific). The first three are located together on chromosome 2, while the tissue non-specific form is located on chromosome 1. The product of this gene is a membrane bound glycosylated enzyme that is not expressed in any particular tissue and is, therefore, referred to as the tissue-nonspecific form of the enzyme. The exact physiological function of the alkaline phosphatases is not known. A proposed function of this form of the enzyme is matrix mineralization; however, mice that lack a functional form of this enzyme show normal skeletal development. This enzyme has been linked directly to hypophosphatasia, a disorder that is characterized by hypercalcemia and includes skeletal defects. The character of this disorder can vary, however, depending on the specific mutation since this determines age of onset and severity of symptoms. Alternatively spliced transcript variants, which encode the same protein, have been identified for this gene. [provided by RefSeq
Other Designations	OTTHUMP00000002971|OTTHUMP00000002972|alkaline phosphatase, tissue-nonspecific isozyme|alkaline phosphomonoesterase|glycerophosphatase|liver/bone/kidney-type alkaline phosphatase|tissue non-specific alkaline phosphatase|tissue-nonspecific ALP

Pathway

- Folate biosynthesis
- gamma-Hexachlorocyclohexane degradation
- Metabolic pathways

Disease

- Alzheimer disease
- Cardiovascular Diseases
- Chondrocalcinosis
- Diabetes Complications
- Fractures
- Genetic Predisposition to Disease
- Hypertension
- Hypophosphatasia
- Kidney Failure
- Metabolic Syndrome X

- Neoplasms
- Osteoporosis
- Spondylitis
- Tobacco Use Disorder