

Product Name: TNAP Rabbit Polyclonal Antibody**Catalog #: APRab19082**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,ELISA 1:20000-1:40000
Molecular Weight	70kDa

Antigen Information

Gene Name	ALPL
Alternative Names	ALPL; Alkaline phosphatase; tissue-nonspecific isozyme; AP-TNAP; TNSALP; Alkaline phosphatase liver/bone/kidney isozyme
Gene ID	249.0
SwissProt ID	P05186
Immunogen	The antiserum was produced against synthesized peptide derived from human ALPL. AA range:201-250

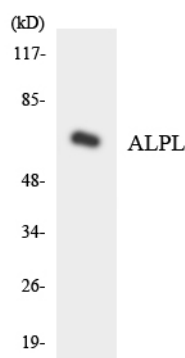
Background

This gene encodes a member of the alkaline phosphatase family of proteins. 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. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature enzyme. This enzyme may play a role in bone mineralization. Mutations in this gene have been linked to hypophosphatasia, a disorder that is characterized by hypercalcemia and skeletal defects. [provcatalytic activity:A phosphate monoester + H(2)O = an alcohol + phosphate,cofactor:Binds 1 magnesium ion,cofactor:Binds 2 zinc ions,disease:Defects in ALPL are a cause of hypophosphatasia adult type (hypophosphatasia) [MIM:146300],disease:Defects in ALPL are a cause of hypophosphatasia childhood (hypophosphatasia) [MIM:241510],disease:Defects in ALPL are a cause of hypophosphatasia infantile (hypophosphatasia) [MIM:241500]; an inherited metabolic bone disease characterized by defective skeletal mineralization. Four hypophosphatasia forms are distinguished, depending on the age of onset: perinatal, infantile, childhood and adult type. The perinatal form is the most severe and is almost always fatal. Patients with only premature loss of deciduous teeth, but with no bone disease are regarded as having odontohypophosphatasia (odonto),function:This isozyme may play a role in skeletal mineralization,miscellaneous:In most mammals there are four different isozymes: placental, placental-like, intestinal and tissue non-specific (liver/bone/kidney),online information:Alkaline phosphatase entry,online information:Tissue nonspecific alkaline phosphatase gene mutations database,PTM:Glycosylated,similarity:Belongs to the alkaline phosphatase family,subunit:Homodimer,

Research Area

Folate biosynthesis;

Image Data



Western blot analysis of the lysates from Jurkat cells using ALPL antibody.