RecomAb™

ALPL recombinant monoclonal antibody, clone R08-6H0

Catalog # RAB01618 Size 100 uL

Applications

Western Blot

Western blot analysis of Alkaline Phosphatase in Hela, C6 lysates using human Alkaline Phosphatase recombinant monoclonal antibody, clone R08-6H0 (Cat # RAB01618).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against synthetic peptide of human Alkaline Phosphatase.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human Alkaline Phosphatase
Theoretical MW (kDa)	Calculated MW: 57 kD
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG

Recommend Usage	Immunofluorescence(1:50-1:200) Immunohistochemistry (1:50-1:100) Immunoprecipitation(1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C for short term. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot

  Western blot analysis of Alkaline Phosphatase in Hela, C6 lysates using human Alkaline Phosphatase recombinant monoclonal antibody, clone R08-6H0 (Cat # RAB01618).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)
- Immunohistochemistry (Frozen sections)
- Immunocytochemistry
- Immunoprecipitation

Gene Info — ALPL

Entrez GeneID	249
Protein Accession#	P05186
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