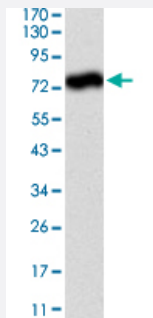


ALPL monoclonal antibody, clone 2F4

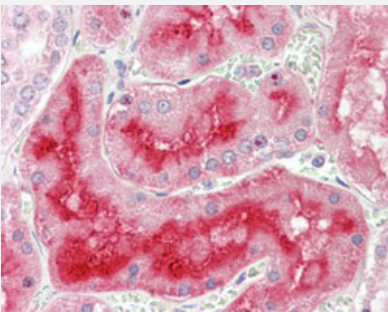
Catalog # MAB12991 Size 50 ug

Applications



Western Blot (Recombinant protein)

Western Blot analysis of ALPL recombinant protein with ALPL monoclonal antibody, clone 2F4 (Cat # MAB12991).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human kidney with ALPL monoclonal antibody, clone 2F4 (Cat # MAB12991).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant human ALPL.
Immunogen	Recombinant protein corresponding to amino acids 18-502 of human ALPL.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Isotype	IgG1

Recommend Usage	ELISA (1:10000) Flow Cytometry (1:200-1:400) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:200) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% protein stabilizer, 0.05% sodium azide).
Storage Instruction	Store at 4°C. 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 should be handled by trained staff only.

Applications

- Western Blot (Recombinant protein)

Western Blot analysis of ALPL recombinant protein with ALPL monoclonal antibody, clone 2F4 (Cat # MAB12991).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human kidney with ALPL monoclonal antibody, clone 2F4 (Cat # MAB12991).

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

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](#)