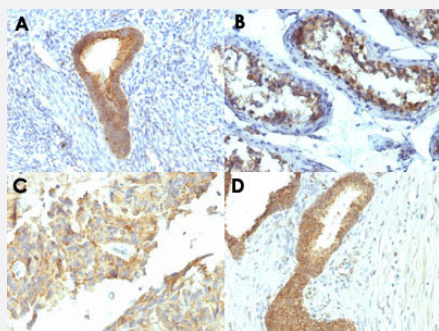


ALPL monoclonal antibody, clone ALPL/597

Catalog # MAB14537 Size 100 ug

Applications



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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human endometrial carcinoma (A), human testicular carcinoma (B), human ovarian carcinoma (C) and human colon carcinoma (D) with ALPL monoclonal antibody, clone ALPL/597 (Cat # MAB14537).

Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant human ALPL.
Immunogen	Recombinant protein corresponding to full length human ALPL.
Host	Mouse
Theoretical MW (kDa)	55
Reactivity	Human
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG1, kappa
Recommend Usage	Flow Cytometry (0.5-1 ug/10 ⁶ cells) Immunofluorescence (0.5-1 ug/mL) Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-1:100) The optimal working dilution should be determined by the end user.
Storage Buffer	In 10 mM PBS (0.05% BSA, 0.05% sodium azide).

Storage Instruction

Store at 4°C.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human endometrial carcinoma (A), human testicular carcinoma (B), human ovarian carcinoma (C) and human colon carcinoma (D) with ALPL monoclonal antibody, clone ALPL/597 (Cat # MAB14537).

- Immunofluorescence

- 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

Publication Reference

- [Human placental and intestinal alkaline phosphatase genes map to 2q34-q37.](#)

Griffin CA, Smith M, Henthorn PS, Harris H, Weiss MJ, Raducha M, Emanuel BS.

American Journal of Human Genetics 1987 Dec; 41(6):1025.

Application: ELISA, IHC-Fr, IHC-P, WB-Ce, WB-Tr, Human, Cancer, Mammalian cells, Serum

- [Diagnostic aspects of alkaline phosphatase and its isoenzymes.](#)

Moss DW.

Clinical Biochemistry 1987 Aug; 20(4):225.

Application: ELISA, Human, Human serum

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](#)