

Mouse Alkaline Phosphatase Monoclonal Antibody | anti-ALPL antibody

Alkaline Phosphatase (Tissue-Nonspecific)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62987	Mouse	Human, Cow. Others not known.	Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

Alkaline Phosphatase; Monoclonal Antibody; Alkaline Phosphatase (Tissue-Nonspecific); Alkaline phosphatase; germ cell; testicular and thymus; Alkaline phosphatase liver/bone/kidney; tissue-nonspecific; ALPG; ALPL; Germ cell alkaline phosphatase; Testicular and thymus alkaline phosphatase; Tissue non-specific alkaline phosphatase; Tissue nonspecific ALP (TNAP or TNSALP); anti-ALPL antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Cow. Others not known.
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	ALPL/597
Specificity	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 hypo-phosphatasia, 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.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	524
Applicable Applications for anti-ALPL antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Immunogen	Recombinant human ALPL protein
Cellular Localization	Cell Surface
Hu-chromosome Location	1p36.12
Positive Control	Intestine
Preparation and Storage	Antibody with azide store at 2-8°C Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Colon Carcinoma stained with Alkaline Phosphatase Mouse Monoclonal Antibody (ALPL/597).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Ovarian Carcinoma stained with Alkaline Phosphatase Mouse Monoclonal Antibody (ALPL/597).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with Alkaline Phosphatase Mouse Monoclonal Antibody (ALPL/597).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Endometrial Carcinoma stained with Alkaline Phosphatase Mouse Monoclonal Antibody (ALPL/597).

ADDITIONAL INFORMATION

References	Griffin, C.A., et al. 1987. Human placental and intestinal alkaline phosphatase genes map to 2q34-q37. Am. J. Hum. Genet. 41: 1025-1034. Moss, D.W. 1987. Diagnostic aspects of alkaline phosphatase and its isoenzymes. Clin. Biochem. 20: 225-230.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	116734717
NCBI GeneID	249
NCBI Accession #	NP_000469.3
NCBI GenBank Nucleotide #	NM_000478.5
UniProt Accession #	P05186; O75090; Q2TAI7; Q59EJ7; Q5BKZ5; Q5VTG5; Q6NZI8; Q8WU32; A1A4E7; B2RMP8; B7Z387; B7Z4Y6
Molecular Weight	55kDa
NCBI Official Full Name	alkaline phosphatase, tissue-nonspecific isozyme isoform 1 preproprotein
NCBI Official Synonym Full Names	alkaline phosphatase, liver/bone/kidney
NCBI Official Symbol	ALPL
NCBI Official Synonym Symbols	HOPS; TNAP; TNALP; APTNAP; TNSALP; AP-TNAP
NCBI Protein Information	alkaline phosphatase, tissue-nonspecific isozyme
UniProt Protein Name	Alkaline phosphatase, tissue-nonspecific isozyme
UniProt Gene Name	ALPL
UniProt Synonym Gene Names	AP-TNAP; TNSALP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.