Product Name: ALPL Mouse Monoclonal Antibody
Catalog #: AMM81104
For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,IHC,ELISA,FC
Reactivity	Human,Mouse,Rat,Rabbit
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Purified antibody in PBS with 0.05% sodium azide
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:200-1:1000,ELISA 1:5000-1:20000,FC 1:200-1:400
Molecular Weight	57.3kDa

Antigen Information

Gene Name	ALPL
Alternative Names	HOPS; TNAP; APTNAP; TNSALP; AP-TNAP
Gene ID	249.0
SwissProt ID	P05186
Immunogen	Purified recombinant fragment of human ALPL expressed in E. Coli.

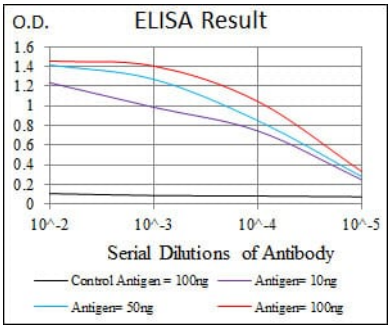
Background

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

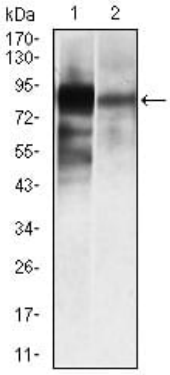
tissue and is, therefore, referred to as the tissue-nonspecific form of the enzyme. The exact physiological function of the alkaline phosphatases is not known. A proposed function of this form of the enzyme is matrix mineralization; however, mice that lack a functional form of this enzyme show normal 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 have been described.

Research Area

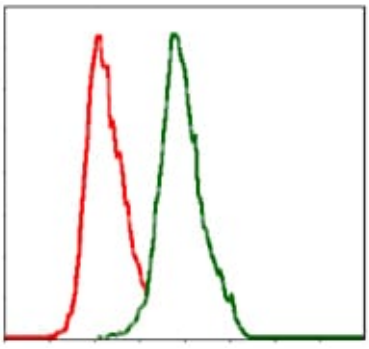
Image Data



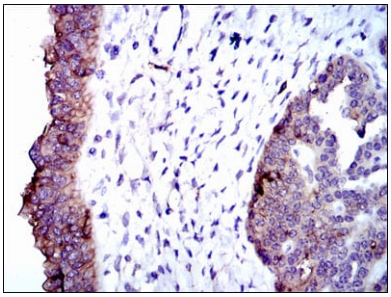
Black line: Control Antigen (100 ng); Purple line: Antigen(10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng);



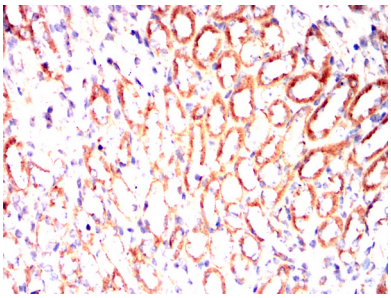
Western blot analysis using ALPL mouse mAb against HeLa (1), and NTERA-2 (4) cell lysate.



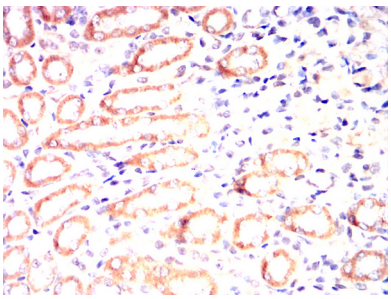
Flow cytometric analysis of MCF-7 cells using ALPL mouse mAb (green) and negative control (red).



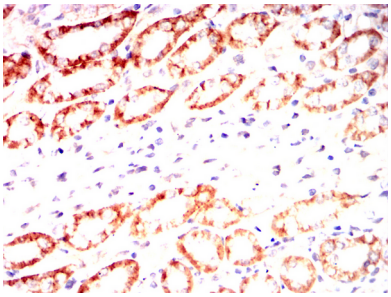
Immunohistochemical analysis of paraffin-embedded human ovarian cancer tissues using ALPL mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Mouse kidney using ALPL mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Rat kidney using ALPL mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Rabbit kidney using ALPL mouse mAb with DAB staining.