

Product datasheet for **TA809117M**

Alkaline Phosphatase (ALPL) Mouse Monoclonal Antibody [Clone ID: OTI3A1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3A1
Applications:	WB
Recommended Dilution:	WB 1:2000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human ALPL (NP_000469) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	57.3 kDa
Gene Name:	alkaline phosphatase, liver/bone/kidney
Database Link:	NP_000469 Entrez Gene 11647 Mouse Entrez Gene 25586 Rat Entrez Gene 249 Human P05186



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Background:

This gene encodes a member of the alkaline phosphatase family of proteins. 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. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature enzyme. This enzyme may play a role in bone mineralization. Mutations in this gene have been linked to hypophosphatasia, a disorder that is characterized by hypercalcemia and skeletal defects. [provided by RefSeq, Oct 2015]

Synonyms:

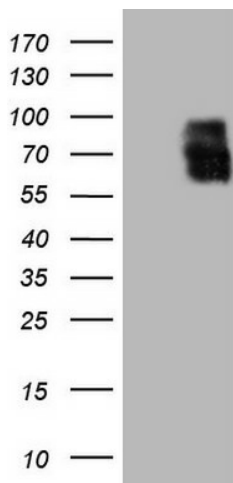
AP-TNAP; APTNAP; HOPS; TNAP; TNSALP

Protein Families:

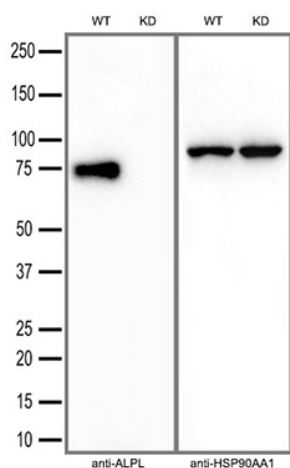
Druggable Genome

Protein Pathways:

Folate biosynthesis, Metabolic pathways

Product images:


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY ALPL [RC205692], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ALPL. Positive lysates [LY400165] (100ug) and [LC400165] (20ug) can be purchased separately from OriGene.



Equivalent amounts of cell lysates (30 ug per lane) of wild-type HeLa cells(WT) and ALPL-Knockdown HeLa cells(KD) were separated by SDS-PAGE and immunoblotted with anti-ALPL monoclonal antibody [TA809117](1:5000). Then the blotted membrane was stripped and reprobed with anti-HSP90AA1 antibody as a loading control.