

Product datasheet for **TA308847**

Alkaline Phosphatase (ALPL) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	IHC:1:100-1:1000; WB:1:500-1:3000
Reactivity:	Human (Predicted: Mouse, Feline, Dog, Rat, Bovine)
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant fragment contain a sequence corresponding to a region within amino acids 1 and 359 of Alkaline Phosphatase (Tissue Non-Specific) (Uniprot ID#P05186)
Formulation:	1XPBS, 20% Glycerol (pH7). 0.025% ProClin 300 was added as a preservative.
Concentration:	lot specific
Purification:	Purified by antigen-affinity chromatography.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	57 kDa
Gene Name:	alkaline phosphatase, liver/bone/kidney
Database Link:	NP_001120973 Entrez Gene 11647 MouseEntrez Gene 25586 RatEntrez Gene 403548 DogEntrez Gene 249 Human P05186



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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, which encode the same protein, have been identified for this gene. [provided by RefSeq]

Synonyms:

AP-TNAP; APTNAP; HOPS; TNAP; TNSALP

Note:

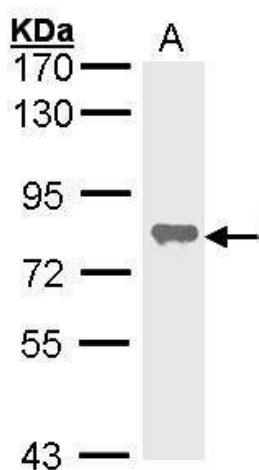
Seq homology of immunogen across species: Mouse (91%), Cat (90%), Dog (89%), Rat (91%), Bovine (89%)

Protein Families:

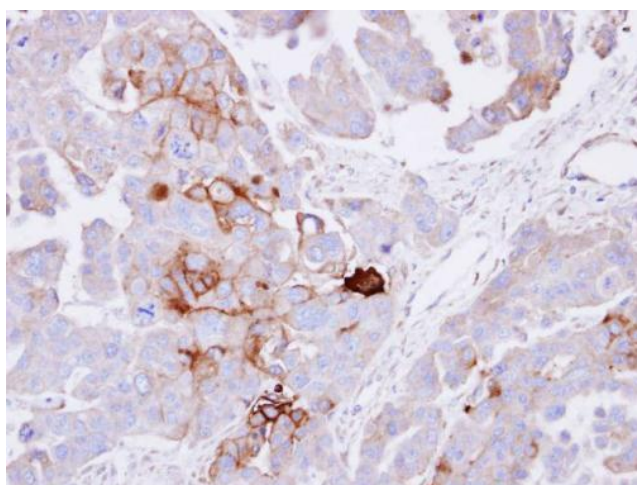
Druggable Genome

Protein Pathways:

Folate biosynthesis, Metabolic pathways

Product images:

Sample (30 ug of whole cell lysate). A: HeLa. 7.5% SDS PAGE. TA308847 diluted at 1:1000.



Immunohistochemical analysis of paraffin-embedded OVCAR3 xenograft, using alkaline phosphatase (liver/bone/kidney) (TA308847) antibody at 1:100 dilution.