

Product datasheet for **TA321138**

Alkaline Phosphatase (ALPL) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 200-400 Positive control: Human esophagus cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to a region derived from 2-329 amino acids of Human Alkaline phosphatase
Formulation:	PBS pH7.3, 0.05% NaN ₃ , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
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:

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.

Synonyms:

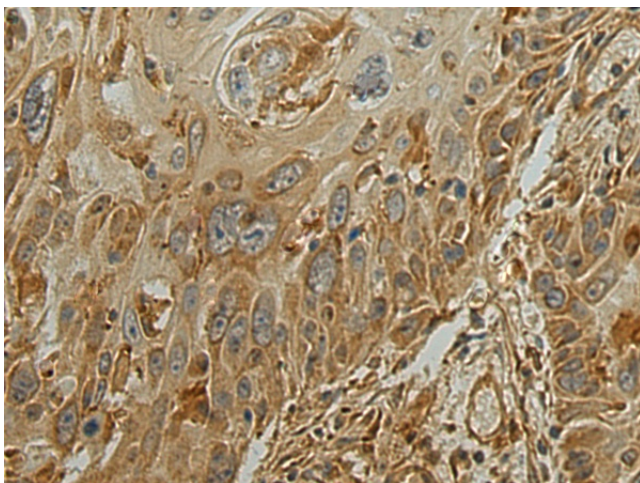
AP-TNAP; APTNAP; HOPS; TNAP; TNSALP

Protein Families:

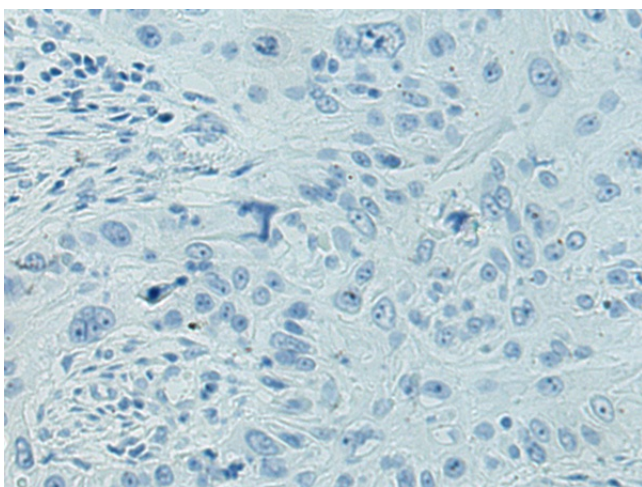
Druggable Genome

Protein Pathways:

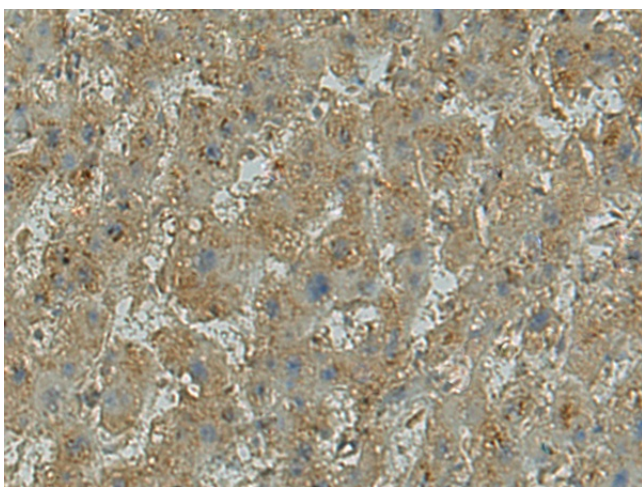
Folate biosynthesis, Metabolic pathways

Product images:


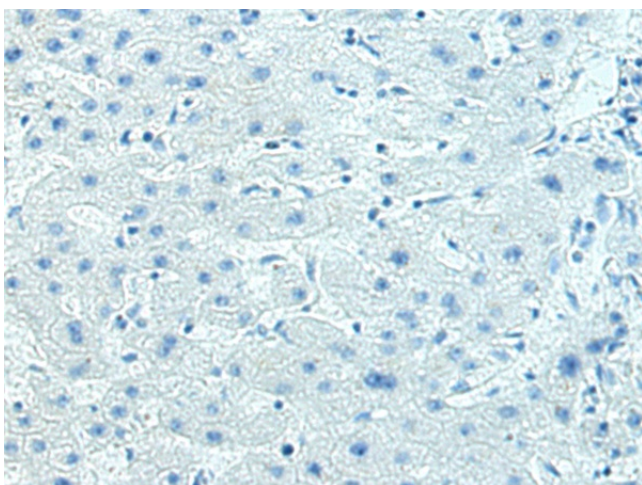
Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using TA321138 (ALPL Antibody) at dilution 1/240 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using TA321138 (ALPL Antibody) at dilution 1/240, treated with fusion protein. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA321138 (ALPL Antibody) at dilution 1/240 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA321138 (ALPL Antibody) at dilution 1/240, treated with fusion protein. (Original magnification: ×200)