

## Product datasheet for **TA321137**

### Alkaline Phosphatase (ALPL) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 200-400 Positive control: Human liver cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to a region derived from 2-329amino acids of Human Alkaline phosphatase
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 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:	<a href="#">NP_000469</a> <a href="#">Entrez Gene 11647 MouseEntrez Gene 25586 RatEntrez Gene 249 Human P05186</a>



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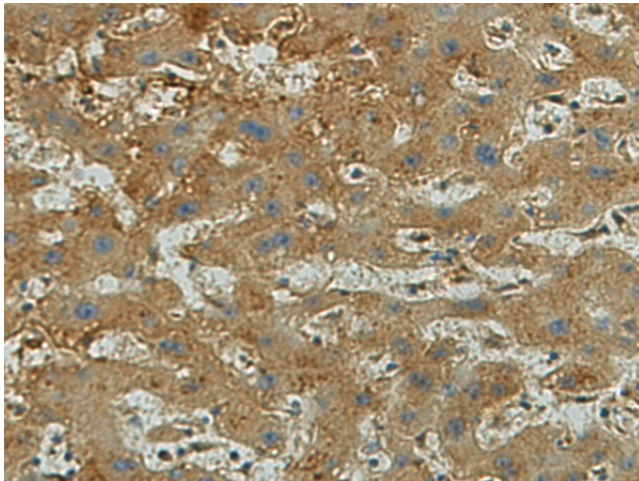
**Background:** There are at least four distinct but related alkaline phosphatases: intestinal; placental; placental-like; and liver/bone/kidney (tissue non-specific). The first three are located together on chromosome 2; while the tissue non-specific form is located on chromosome 1. The product of this 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

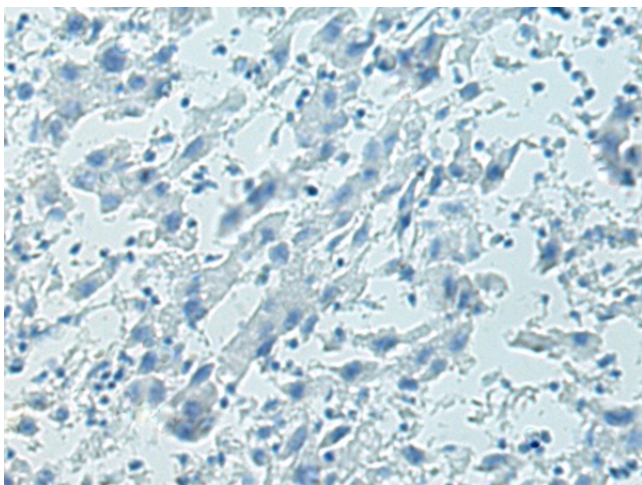
**Protein Families:** Druggable Genome

**Protein Pathways:** Folate biosynthesis, Metabolic pathways

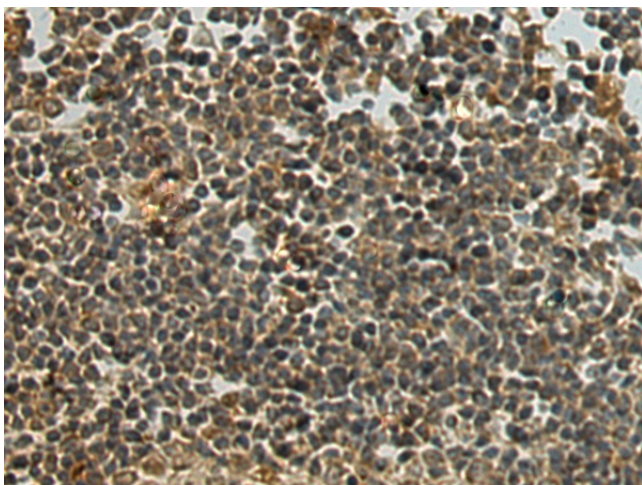
**Product images:**



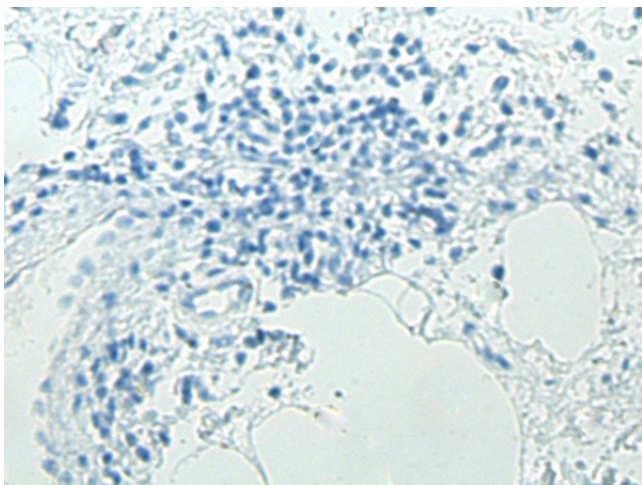
Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA321137 (ALPL Antibody) at dilution 1/200 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA321137 (ALPL Antibody) at dilution 1/200, treated with fusion protein. (Original magnification: x200)



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using TA321137 (ALPL Antibody) at dilution 1/200 (Original magnification: x200)



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using TA321137 (ALPL Antibody) at dilution 1/200, treated with fusion protein. (Original magnification: x200)