

# Product datasheet

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# ARG57422 anti-ALP / Alkaline Phosphatase antibody

Package: 50 μl Store at: -20°C

# **Summary**

Product Description Rabbit Polyclonal antibody recognizes ALP / Alkaline Phosphatase

Tested Reactivity Hu, Ms, Rat

Tested Application ICC/IF, IHC-P, WB

Host Rabbit

**Clonality** Polyclonal

Isotype IgG

Target Name ALP / Alkaline Phosphatase

Species Human

Immunogen Recombinant protein of Human ALP / Alkaline Phosphatase.

Conjugation Un-conjugated

Alternate Names TNSALP; HOPS; EC 3.1.3.1; Alkaline phosphatase, tissue-nonspecific isozyme; TNAP; Alkaline

phosphatase liver/bone/kidney isozyme; APTNAP; AP-TNAP

# **Application Instructions**

Application table	Application	Dilution
	ICC/IF	1:50 - 1:100
	IHC-P	1:50 - 1:200
	WB	1:5000 - 1:10000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HepG2	

#### **Properties**

Form	Liquid
Purification	Affinity purification with immunogen.
Ruffer	PBS (nH 7 3) 0.02% Sodium azide and 50%

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

#### Bioinformation

Gene Symbol ALPL

Gene Full Name alkaline phosphatase, liver/bone/kidney

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

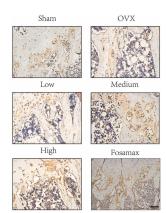
transcript variants have been described. [provided by RefSeq, Apr 2010]

Function This isozyme may play a role in skeletal mineralization. [UniProt]

Calculated Mw 57 kDa

PTM N-glycosylated.

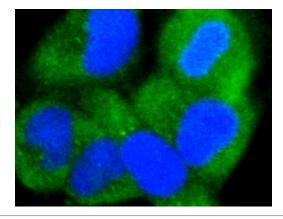
#### **Images**



#### ARG57422 anti-ALP / Alkaline Phosphatase antibody IHC-P image

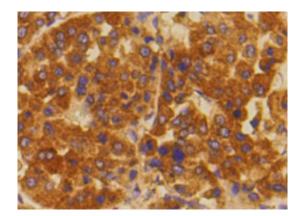
Immunohistochemistry: Mouse bone stained with ARG57422 anti-ALP / Alkaline Phosphatase antibody.

From Jingyuan Wen et al. Biomed Pharmacother., (2023) <u>doi:</u> 10.1016/j.biopha.2022.114122, Fig. 5C.



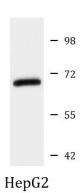
### ARG57422 anti-ALP / Alkaline Phosphatase antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG57422 anti-ALP / Alkaline Phosphatase antibody.



#### ARG57422 anti-ALP / Alkaline Phosphatase antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human liver cancer stained with ARG57422 anti-ALP / Alkaline Phosphatase antibody at 1:100 dilution.



#### ARG57422 anti-ALP / Alkaline Phosphatase antibody WB image

Western blot: HepG2 cell lysate stained with ARG57422 anti-ALP  $\!\!/$  Alkaline Phosphatase antibody.