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

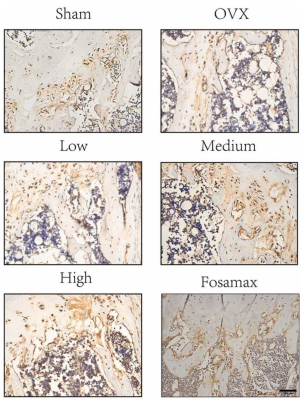
Properties

Form	Liquid
Purification	Affinity purification with immunogen.
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.

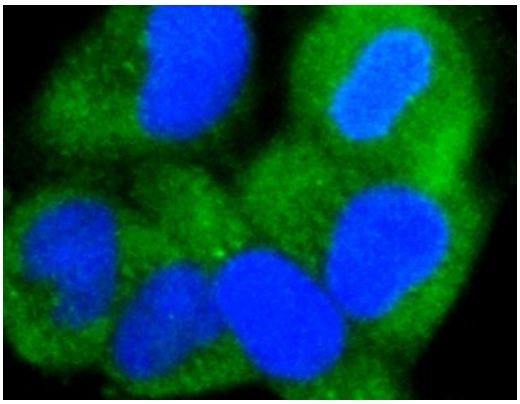
Images



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

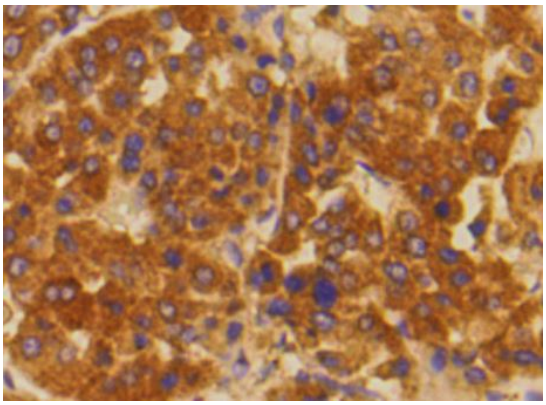
Immunohistochemistry: Mouse bone stained with ARG57422 anti-ALP / Alkaline Phosphatase antibody.

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



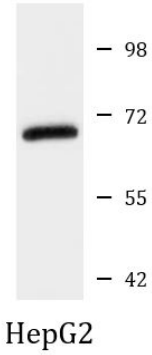
ARG57422 anti-ALP / Alkaline Phosphatase antibody ICC/IF image

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.