ARG43818
anti-ALP / Alkaline Phosphatase antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ALP / Alkaline Phosphatase
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, IP, WB
Specificity	Human,Mouse,Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ALP / Alkaline Phosphatase
Species	Human
Immunogen	Synthetic peptide of human Alkaline Phosphatase.
Conjugation	Un-conjugated
Alternate Names	ALPL; Alkaline Phosphatase, Biomineralization Associated; TNSALP; TNALP; TNAP; Alkaline Phosphatase, Tissue-Nonspecific Isozyme; Alkaline Phosphatase Liver/Bone/Kidney Isozyme; Tissue Non-Specific Alkaline Phosphatase; Alkaline Phosphatase, Liver/Bone/Kidney; Phosphocreatine Phosphatase; Phosphoamidase; EC 3.1.3.1; AP-TNAP; TNS-ALP; HOPS; Liver/Bone/Kidney-Type Alkaline Phosphatase; Tissue-Nonspecific ALP; EC 3.9.1.1; APTNAP; HPPA; HPPC; HPPI; HPPO

Application Instructions

Application table

Application	Dilution
FACS	1:50-1:100
ICC/IF	1:50-1:200
IHC-P	1:50-1:100
IP	1:20
WB	1:500-1:1000

Observed Size: 75 kDa

Properties

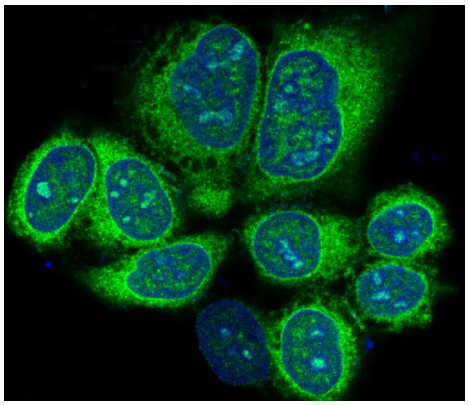
Form	Liquid
Purification	Affinity Purified
Buffer	PBS, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Preservative	0.02% sodium azide
Stabilizer	50% glycerol

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 or below. 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

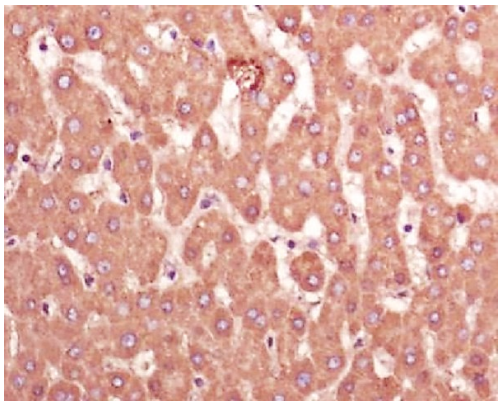
Gene Symbol	ALPL
Gene Full Name	Alkaline Phosphatase, Biomineralization Associated
Background	This gene encodes a member of the alkaline phosphatase family of proteins. There are at least four distinct but related alkaline phosphatases: intestinal, placental, placental-like, and liver/bone/kidney (tissue 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. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature enzyme. This enzyme may play a role in bone mineralization. Mutations in this gene have been linked to hypophosphatasia, a disorder that is characterized by hypercalcemia and skeletal defects. [provided by RefSeq, Oct 2015]
Function	Plays an essential role in skeletal and dental mineralization via its ability to hydrolyze extracellular diphosphate, a potent mineralization inhibitor, to phosphate: it thereby promotes hydroxyapatite crystal formation and increases inorganic phosphate concentration. [UniProt]
Calculated Mw	57 kDa
PTM	Disulfide bond, Glycoprotein, GPI-anchor, Lipoprotein, Phosphoprotein. [UniProt]
Cellular Localization	Cell membrane, Membrane, Mitochondrion. [UniProt]

Images



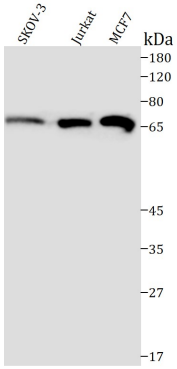
ARG43818 anti-ALP / Alkaline Phosphatase antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG43818 anti-ALP / Alkaline Phosphatase antibody at 1:50 dilution.



ARG43818 anti-ALP / Alkaline Phosphatase antibody IHC-P image

Immunofluorescence: Human liver stained with ARG43818 anti-ALP / Alkaline Phosphatase at 1:50 dilution.



ARG43818 anti-ALP / Alkaline Phosphatase antibody WB image

Western blot: SKOV-3, Jurkat and MCF-7 stained with ARG43818 anti-ALP / Alkaline Phosphatase antibody at 1:500 dilution.