



Rabbit Anti-Bone Alkaline Phosphatase antibody

SL6292R

Product Name:	Bone Alkaline Phosphatase
Chinese Name:	骨碱性磷酸酶抗体
Alias:	AKP2; Alkaline phosphatase liver/bone/kidney; Alkaline phosphatase liver/bone/kidney isozyme; Alkaline phosphatase tissue nonspecific isozyme; Alkaline phosphatase, tissue-nonspecific isozyme; ALPL; AP TNAP; AP-TNAP; APTNAP; BALP; BAP; FLJ40094; FLJ93059; Glycerophosphatase; HOPS; Liver/bone/kidney isozyme; Liver/bone/kidney type alkaline phosphatase; MGC161443; MGC167935; PHOA; PPBT_HUMAN; Tissue non specific alkaline phosphatase; Tissue nonspecific ALP; TNAP; TNSALP.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Cow,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=1ug/TestIF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	55kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human Bone Alkaline Phosphatase:56-150/524
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed

Defects in ALPL are a cause of hypophosphatasia (HOPS) . HOPS is an inherited metabolic bone disease characterized by defective skeletal mineralization. Four hypophosphatasia forms are distinguished, depending on the age of onset: perinatal, infantile, childhood and adult type. The perinatal form is the most severe and is almost always fatal. Patients with only premature loss of deciduous teeth, but with no bone disease are regarded as having odontohypophosphatasia.

Function:

This isozyme may play a role in skeletal mineralization.

Subunit:

Homodimer.

Subcellular Location:

Cell membrane; Lipid-anchor, GPI-anchor.

Post-translational modifications:

Glycosylated.

DISEASE:

Defects in ALPL are a cause of hypophosphatasia (HOPS) [MIM:146300]. HOPS is an inherited metabolic bone disease characterized by defective skeletal mineralization. Four hypophosphatasia forms are distinguished, depending on the age of onset: perinatal, infantile, childhood and adult type. The perinatal form is the most severe and is almost always fatal. Patients with only premature loss of deciduous teeth, but with no bone disease are regarded as having odontohypophosphatasia (odonto).

Defects in ALPL are a cause of hypophosphatasia childhood type (HOPSC) [MIM:241510].

Defects in ALPL are a cause of hypophosphatasia infantile type (HOPSI) [MIM:241500].

Similarity:

Belongs to the alkaline phosphatase family.

SWISS:

P05186

Gene ID:

249

Database links:

[Entrez Gene: 249](#)Human

[Entrez Gene: 11647](#)Mouse

Product Detail:

[Entrez Gene: 25586](#)Rat

[Omin: 171760](#)Human

[SwissProt: P05186](#)Human

[SwissProt: P09242](#)Mouse

[SwissProt: P08289](#)Rat

[Unigene: 75431](#)Human

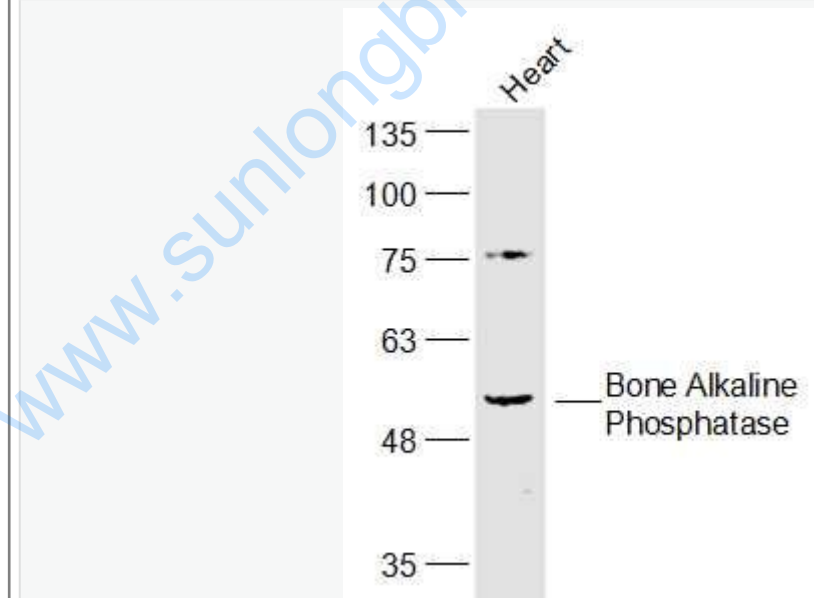
[Unigene: 288186](#)Mouse

[Unigene: 82764](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

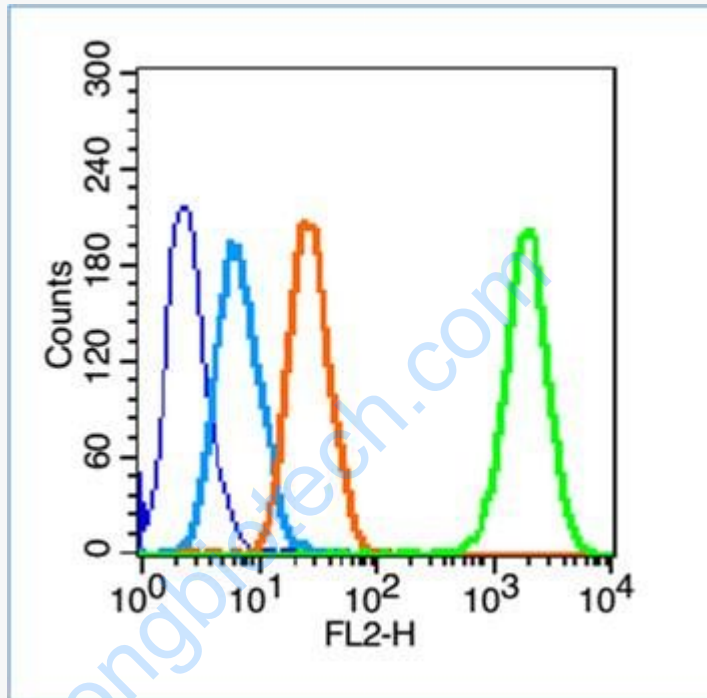
Heart (Mouse) Lysate at 40 ug

Primary: Anti-Bone Alkaline Phosphatase (SL6292R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 55 kD

Observed band size: 55 kD



Blank control (blue line): Hep G2(fixed with 70% ethanol Overnight at 4°C).

Primary Antibody (green line): Rabbit Anti-Bone Alkaline Phosphatase antibody (SL6292R),Dilution: 1µg /10⁶ cells.

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE,Dilution: 1µg /test.