



Anti-ALPL polyclonal antibody [HRP] (CPBT-66503SH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

Sheep anti Human alkaline phosphatase (Bap) antibody recognizes human bone alkaline phosphatase (BAP), a membrane-bound hydrolase enzyme expressed by osteoblast cells. Alkaline phosphatase (AP) is a ubiquitously expressed enzyme which removes phosphate groups from target molecules, including DNA, RNA and alkaloids, under alkaline conditions, and is present at higher concentrations in the placenta (placental AP), intestines (intestinal AP) and liver/bone/kidney (tissue non-specific AP). Although the exact biochemical function of BAP is uncertain, measurement of the serum levels of BAP can be used as a biochemical indicator of bone turnover. Conditions which present with a decrease in the level of BAP (hypophosphatasemia) include the inherited bone-deforming disorder hypophosphatasia and osteoporosis, whilst an increase in BAP (hyperphosphatasemia) is associated with Paget's disease, bone fractures and osteosarcomas.

Specificity	ALPL
Immunogen	Alkaline phosphatase from human bone.
Isotype	IgG
Source/Host	Sheep
Species Reactivity	Human
Conjugate	HRP
Applications	ELISA
Format	Purified IgG conjugated to Horseradish Peroxidase (HRP) - liquid
Size	1 ml

Preservative	None
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	ALPL alkaline phosphatase, liver/bone/kidney [Homo sapiens (human)]
Official Symbol	ALPL
Synonyms	ALPL; alkaline phosphatase, liver/bone/kidney; HOPS; TNAP; APTNAP; TNSALP; AP-TNAP; alkaline phosphatase, tissue-nonspecific isozyme; glycerophosphatase; tissue-nonspecific ALP; alkaline phosphomonoesterase; liver/bone/kidney-type alkaline phosphatase; al
Entrez Gene ID	249
Protein Refseq	NP_000469
UniProt ID	P05186
Chromosome Location	1p36.12
Pathway	AGE/RAGE pathway; BDNF signaling pathway; Endochondral Ossification; Folate biosynthesis; Metabolic pathways; TNF-alpha/NF-kB Signaling Pathway;
Function	alkaline phosphatase activity; metal ion binding; protein binding; pyrophosphatase activity;
