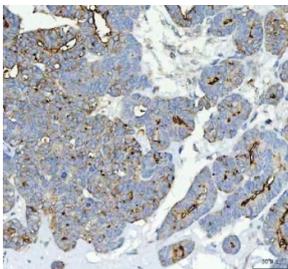


Alkaline Phosphatase Antibody (tissue-nonspecific) (R30169)

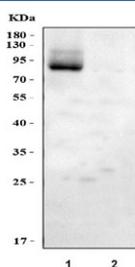
Catalog No.	Formulation	Size
R30169	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P05186
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml
Limitations	This Alkaline Phosphatase antibody is available for research use only.



IHC staining of FFPE human parotid acinar cell carcinoma tissue with Alkaline Phosphatase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) HeLa and 2) 293T cell lysate with Alkaline Phosphatase antibody. Predicted molecular weight ~57 kDa, but can be observed at higher molecular weights due to glycosylation.

Description

Alkaline phosphatase, tissue-nonspecific isozyme is an enzyme that in humans is encoded by the ALPL gene. 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. Liver/bone/kidney alkaline phosphatase, known as tissue-nonspecific, acts physiologically as a lipid-anchored phosphoethanolamine (PEA) and pyridoxal-5-prime-phosphate (PLP) ectophosphatase. Mice that lack a functional form of this enzyme show normal skeletal development. This enzyme has been linked directly to a disorder known as hypophosphatasia, a disorder that is characterized by hypercalcemia and includes skeletal defects.

Application Notes

Titration of the Alkaline Phosphatase antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Amino acids 21-35 (EKEKDPKYWRDQAQE) from human ALPL were used as the immunogen for this tissue-nonspecific Alkaline Phosphatase antibody.

Storage

The lyophilized Alkaline Phosphatase antibody can be stored at 4oC to -20oC. After reconstitution, aliquot and store at -20oC. Avoid repeated freezing and thawing.