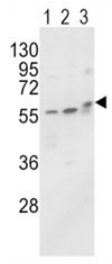
Alkaline Phosphatase Antibody (tissue-nonspecific) (F44128)

Catalog No.	Formulation	Size
F44128-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F44128-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse
Predicted Reactivity	Bovine
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	P05186
Localization	Cell surface, cytoplasmic, secreted
Applications	Western Blot : 1:1000
Limitations	This Alkaline Phosphatase antibody is available for research use only.



Western blot analysis of ALP / Alkaline Phosphatase antibody and MCF-7 (lane 1), HL-60 cell line (2) and mouse brain tissue (3) lysate. Predicted molecular weight ~57 kDa, but can be observed at up to ~75 kDa due to glycosylation.

Description

There are at least four distinct but related alkaline phosphatases: intestinal, placental, placental-like, and liver/bone/kidney (tissue non-specific). The genes for the first three are located together on chromosome 2 while the tissue non-specific form is located on chromosome 1. This protein 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 a disorder known as 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.

For a clone-defined immunohistochemistry-focused ALPL reagent with extensive tumor tissue staining data, see our Alkaline Phosphatase Tissue Non Specific Antibody page featuring clone ALPL/597.

Application Notes

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

Immunogen

A portion of amino acids 3-32 from human ALPL was used as the immunogen for this tissue-nonspecific Alkaline Phosphatase antibody.

Storage

Aliquot the Alkaline Phosphatase antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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