Recombinant Alkaline Phosphatase Monoclonal Antibody

catalog number: E-AB-81527

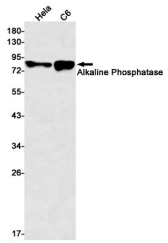
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Rat
Immunogen	A synthetic peptide of human Alkaline Phosphatase, Tissue Non-Specific
Host	Rabbit
Isotype	IgG
Clone	R08-6H0
Purification	Affinity Purified
Buffer	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.05% stabilizer and 0.05% protective protein.

Applications	Recommended Dilution
WB	1:1000-1:2000
IHC	1:50-1:100
IF	1:50-1:100

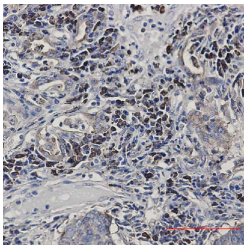
Data



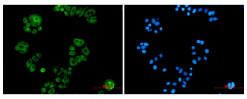
Western blot detection of Alkaline Phosphatase in Hela,C6 cell lysates using Alkaline Phosphatase Rabbit mAb(1:500 diluted).Predicted band size:57kDa.Observed band size:80kDa.

Observed-MW:80 kDa

Calculated-MW:57 kDa



Immunohistochemistry of Alkaline Phosphatase, Tissue Non-Specific in paraffin-embedded Human lung cancer tissue using Alkaline Phosphatase, Tissue Non-Specific Rabbit mAb at dilution 1:50



Immunofluorescence of Alkaline Phosphatase, Tissue Non-Specific (green) in hela using Alkaline Phosphatase, Tissue Non-Specific Rabbit mAb at dilution 1:50, and DAPI(blue)

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	The product is shipped with ice pack,upon receipt,store it immediately at the temperature recommended.

For Research Use Only

Background

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. 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 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. Alternatively spliced transcript variants have been described.

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