

Anti-Alkaline Phosphatase Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

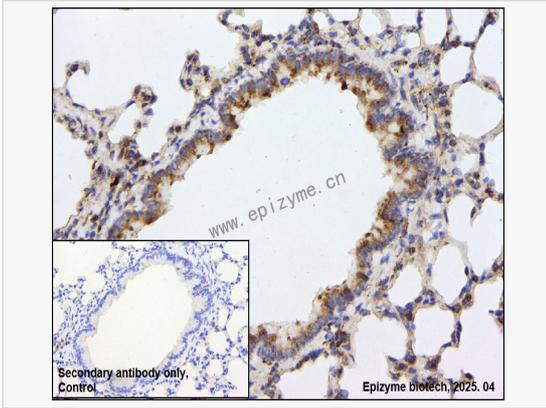
Catalog # R015360

Product Information

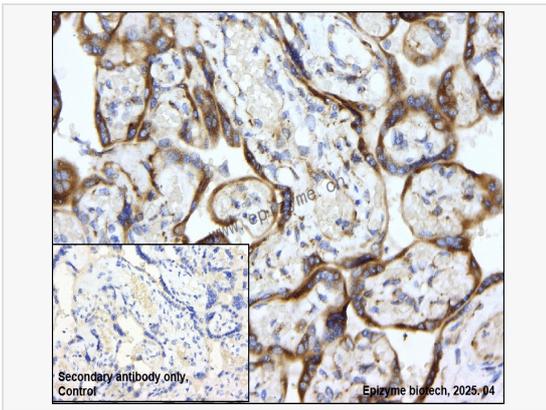
Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	62M61E40
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Alkaline Phosphatase
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Alkaline Phosphatase Rabbit mAb [62M61E40] is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

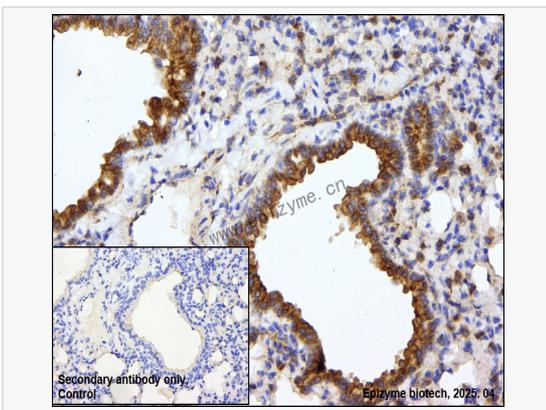
Synonyms	ALPL; AKP2; Alkaline phosphatase liver/bone/kidney; Alkaline phosphatase liver/bone/kidney isozyme; Alkaline phosphatase tissue nonspecific isozyme; AP TNAP; AP-TNAP; APTNAP; BALP; BAP; FLJ40094; FLJ93059; Glycerophosphatase; HOPS; Liver/bone/kidney isozyme; Liver/bone/kidney type alkaline phosphatase; MGC161443; MGC167935; PHOA; PPBT_HUMAN; Tissue non specific alkaline phosphatase; Tissue nonspecific ALP; TNAP; TNSALP.
Calculated MW	Calculated MW: 57 kDa; Observed MW: 75 kDa
Uniprot ID	P05186
Gene ID	249
Background	This gene encodes a member of the alkaline phosphatase family of proteins. 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. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature enzyme. This enzyme may play a role in bone mineralization. Mutations in this gene have been linked to hypophosphatasia, a disorder that is characterized by hypercalcemia and skeletal defects. [provided by RefSeq, Oct 2015]
Cellular Location	Cell membrane.



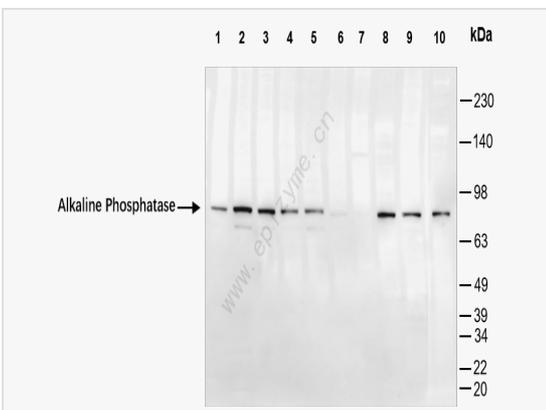
Immunohistochemistry - Anti-Alkaline Phosphatase Rabbit mAb [62M61E40]
 Sample: Paraformaldehyde-fixed, paraffin embedded rat lung tissue
 Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
 Primary antibody: R015360 at 1:200 dilution
 Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,001 dilution
 DAB was used as the chromogen.
 Counter stained with hematoxylin.
 Positive/negative staining were presented.
 Only the secondary antibody was used as the negative control.



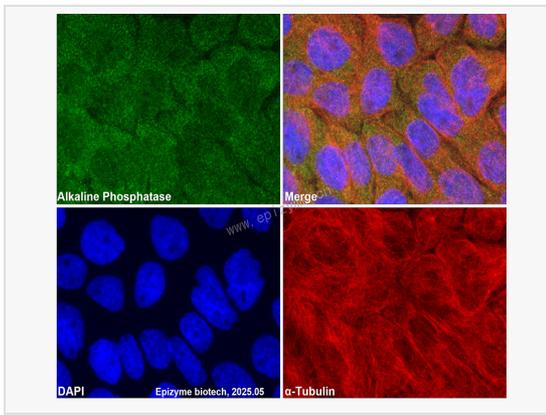
Immunohistochemistry - Anti-Alkaline Phosphatase Rabbit mAb [62M61E40]
 Sample: Paraformaldehyde-fixed, paraffin embedded human placenta tissue
 Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
 Primary antibody: R015360 at 1:200 dilution
 Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,001 dilution
 DAB was used as the chromogen.
 Counter stained with hematoxylin.
 Positive/negative staining were presented.
 Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Alkaline Phosphatase Rabbit mAb [62M61E40]
 Sample: Paraformaldehyde-fixed, paraffin embedded mouse lung tissue
 Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
 Primary antibody: R015360 at 1:200 dilution
 Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,001 dilution
 DAB was used as the chromogen.
 Counter stained with hematoxylin.
 Positive/negative staining were presented.
 Only the secondary antibody was used as the negative control.



Western Blot - Anti-Alkaline Phosphatase Rabbit mAb [62M61E40]
 All lanes: R015360 at 1:1,000 dilution
 Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
 Lane 2: A431 (Human epidermoid teratoma cell line) whole cell lysates
 Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
 Lane 4: T24 (Human bladder cancer epithelial cell) whole cell lysates
 Lane 5: U87 (Human malignant glioblastoma epithelial cell) whole cell lysates
 Lane 6: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
 Lane 7: Mouse brain whole tissue lysates
 Lane 8: Mouse liver whole tissue lysates
 Lane 9: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
 Lane 10: Rat heart whole tissue lysates
 Lysates/proteins at 10 µg per lane.
 Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
 Predicted band size: 57 kDa
 Observed band size: 75 kDa
 Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-Alkaline Phosphatase Rabbit mAb [62M61E40]

Sample: A431 cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R015360 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).