
Product Name: KD-Validated Alkaline Phosphatase Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01560**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 56.8kDa

Antigen Information

Gene Name	ALPI ALPI; Alkaline Phosphatase, Intestinal; IAP; Intestinal Alkaline Phosphatase; Intestinal-Type
Alternative Names	Alkaline Phosphatase; EC 3.1.3.1; Alkaline Phosphomonoesterase; Glycerophosphatase; Kasahara Isozyme
Gene ID	248.0
SwissProt ID	P09923
Immunogen	A synthesized peptide derived from human intestinal alkaline phosphatase

Background

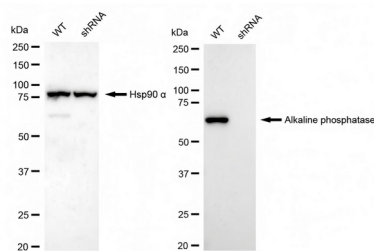
There are at least four distinct but related alkaline phosphatases: intestinal, placental, placental-like, and liver/bone/kidney

(tissue non-specific). The intestinal alkaline phosphatase gene encodes a digestive brush-border enzyme. This enzyme is a component of the gut mucosal defense system and is thought to function in the detoxification of lipopolysaccharide, and in the prevention of bacterial translocation in the gut. [provided by RefSeq, Dec 2014]

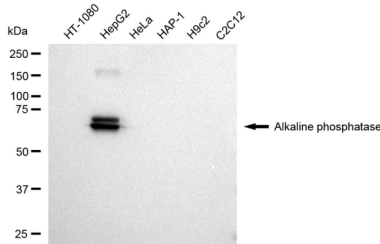
Research Area

Tags & Cell Markers

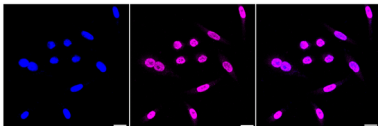
Image Data



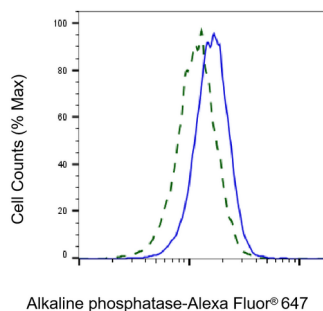
Western blotting analysis using alkaline phosphatase antibody (KVA01560). Alkaline phosphatase expression in wild type (WT) and alkaline phosphatase (ALPI) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with alkaline phosphatase antibody (KVA01560, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



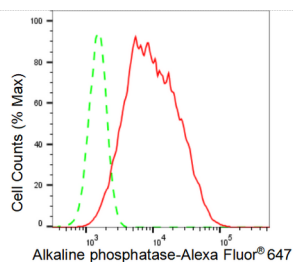
Western blotting analysis using Alkaline phosphatase antibody (KVA01560). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Alkaline phosphatase antibody (KVA01560, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with Alkaline phosphatase antibody (KVA01560, 1:1,000). Nuclei were stained blue with DAPI; Alkaline phosphatase was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Validation of Alkaline phosphatase knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Alkaline phosphatase antibody (KVA01560, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Alkaline phosphatase expression in HepG2 cells using Alkaline phosphatase antibody (KVA01560, 1:2,000). Green, isotype control; red, Alkaline phosphatase.