

Alkaline Phosphatase (ALPI) Antibody (Center) Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP1480c

#### **Specification**

## Alkaline Phosphatase (ALPI) Antibody (Center) - Product Information

Application Primary Accession Reactivity Host Clonality Isotype Antigen Region WB, IHC-P, IF,E <u>P09923</u> Human Rabbit Polyclonal Rabbit IgG 274-304

#### Alkaline Phosphatase (ALPI) Antibody (Center) - Additional Information

Gene ID 248

**Other Names** Intestinal-type alkaline phosphatase, IAP, Intestinal alkaline phosphatase, ALPI

Target/Specificity

This Alkaline Phosphatase (ALPI) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 274-304 amino acids from the Central region of human Alkaline Phosphatase (ALPI).

Dilution WB~~1:1000 IHC-P~~1:100 IF~~1:100 E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

Alkaline Phosphatase (ALPI) Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

#### Alkaline Phosphatase (ALPI) Antibody (Center) - Protein Information

Name ALPI



**Function** Alkaline phosphatase that can hydrolyze various phosphate compounds.

Cellular Location Cell membrane {ECO:0000250|UniProtKB:P15693}; Lipid-anchor, GPI-anchor {ECO:0000250|UniProtKB:P15693}

### Alkaline Phosphatase (ALPI) Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- <u>Flow Cytomety</u>
- <u>Cell Culture</u>

#### Alkaline Phosphatase (ALPI) Antibody (Center) - Images



Fluorescent confocal image of HeLa cells stained with Alkaline Phosphatase (ALPI) (Center) antibody. HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with AP1480c Alkaline Phosphatase (ALPI) (Center) primary antibody (1:100, 2 h at room temperature). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10  $\mu$ g/ml, 5 min). Alkaline Phosphatase (ALPI) immunoreactivity is localized to the cytoplasm of HeLa cells.





Western blot analysis of lysate from human placenta tissue, using ALPI Antibody (Center)(Cat. #AP1480c).AP1480c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysate at 35ug per lane.



Western blot analysis of lysate from human placenta tissue lysate, using ALPI Antibody (Center)(Cat. #AP1480c). AP1480c was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.





Immunohistochemical analysis of paraffin-embedded H. small intestine section using Alkaline Phosphatase (ALPI) Antibody(Center) (Cat#AP1480c). AP1480c was diluted at 1:100 dilution. A peroxidase-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody, followed by DAB staining.

# Alkaline Phosphatase (ALPI) Antibody (Center) - 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 upregulated during small intestinal epithelial cell differentiation.

# Alkaline Phosphatase (ALPI) Antibody (Center) - References

References for protein:

1.Torres,M.I., Pathol. Res. Pract. 203 (6), 485-487 (2007) 2.Olsen,L., Am. J. Physiol. Gastrointest. Liver Physiol. 289 (2), G220-G226(2005) 3.Alkhoury,F., Am. J. Physiol. Gastrointest. Liver Physiol. 289 (2), G285-G290(2005)

References for HeLa cell line:

1. Scherer WF, Syverton JT, Gey GO (May 1953). "Studies on the propagation in vitro of poliomyelitis viruses. IV. Viral multiplication in a stable strain of human malignant epithelial cells (strain HeLa) derived from an epidermoid carcinoma of the cervix". J. Exp. Med. 97 (5): 695–710. [PubMed:13052828].

 Macville M, Schröck E, Padilla-Nash H, Keck C, Ghadimi BM, Zimonjic D, Popescu N, Ried T (January 1999). "Comprehensive and definitive molecular cytogenetic characterization of HeLa cells by spectral karyotyping". Cancer Res. 59 (1): 141–50. [PubMed: 9892199].
Rahbari R, Sheahan T, Modes V, Collier P, Macfarlane C, Badge RM (April 2009). "A novel L1 retrotransposon marker for HeLa cell line identification". BioTechniques 46 (4): 277–84. [PubMed: 19450234].

4. Capes-Davis A, Theodosopoulos G, Atkin I, Drexler HG, Kohara A, MacLeod RA, Masters JR, Nakamura Y, Reid YA, Reddel RR, Freshney RI (July 2010). "Check your cultures! A list of cross-contaminated or misidentified cell lines". Int. J. Cancer 127 (1): 1–8. [PubMed:20143388].

# Alkaline Phosphatase (ALPI) Antibody (Center) - Citations

• Growth differentiation factor 9 concentration in the follicular fluid of infertile women with endometriosis.

