

Datasheet for 200-401-142**ALKALINE PHOSPHATASE Antibody****Overview**

Description:	Anti-Alkaline Phosphatase (Human Intestine) (RABBIT) Antibody (BULK ORDER) - 200-401-142
Item No.:	200-401-142
Size:	50 mg
Applications:	WB, IF
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	In most mammals there are four different isozymes: placental, placental-like, intestinal and tissue non-specific (liver/bone/kidney). Alkaline Phosphatase catalytic activity is phosphate monoester + H ₂ O = an alcohol + phosphate.
Synonyms:	rabbit anti-Alkaline Phosphatase Antibody, rabbit anti-Alkaline phosphatase intestinal antibody, Alkaline phosphomonoesterase antibody, ALPI antibody, Glycerophosphatase antibody, IAP antibody, Intestinal alkaline phosphatase antibody, Kasahara isozyme antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ALP1
Reactivity:	Human
Immunogen Type:	Native Protein
Immunogen:	Alkaline Phosphatase [Human Intestine]

Purity/Specificity: Anti-ALKALINE PHOSPHATASE is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum as well as purified and partially purified Alkaline Phosphatase [Human Intestine]. Cross reactivity against Alkaline Phosphatase from other sources is unknown.

Relevant Links:

- [UniProtKB - P09923](#)
- [NCBI - P09923.2](#)
- [GeneID - 248](#)

Application Details

Tested Applications:	WB
Suggested Applications:	IF (Based on references)
Application Note:	ALKALINE PHOSPHATASE Antibody has been assayed against 1.0 µg of Alkaline Phosphatase [Human Intestine] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) code #611-1302 and (ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:20,000 to 1:100,000 of the reconstitution concentration is suggested for this product.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:4,000 - 1:20,000
WB:	1:500 - 1:2,000

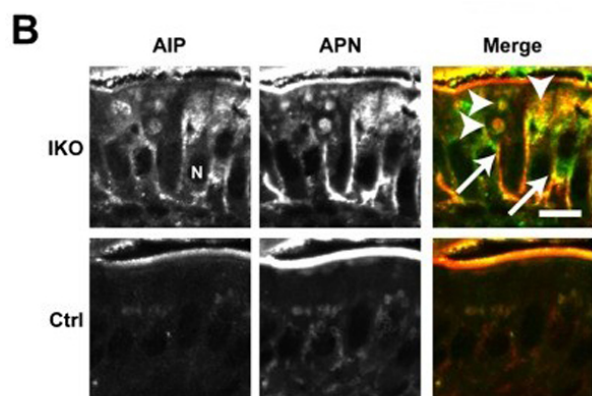
Formulation

Physical State:	Lyophilized
Concentration:	10.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None
Reconstitution Volume:	5.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

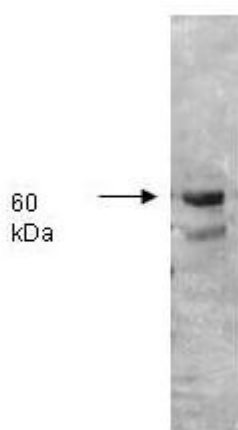
Images



Immunohistochemistry

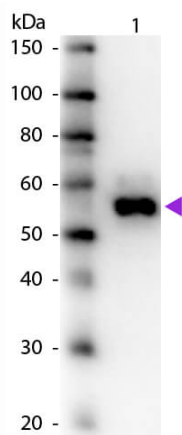
Localization of apical and basolateral proteins in the small intestine of Rab11a IKO mice at P21.

(B) Localization of the apical proteins AIP and APN in control (Ctrl) and IKO cells at P21. Merged figures of AIP and APN are shown on the right. Intracellular vacuoles of AIP and APN are indicated by arrowheads. Basolateral localization is indicated by arrows. Fig 3. PMID: 25527643



Western Blot

Both the antiserum and IgG fractions of anti-Alkaline Phosphatase (Human Intestine) are shown to detect under reducing conditions of SDS-PAGE the 60,000 dalton enzyme in cellular extracts. Approximately 10 ug of total protein is loaded per lane. A 1:5,000 dilution of the primary antibody is used followed by detection using HRP Goat-a-Rabbit IgG [H&L] (611-1302) diluted 1:4,000 and color development using 4-CN substrate until sufficient color develops. Other detection systems will yield similar results.



Western Blot

Western Blot of Rabbit Anti-Alkaline Phosphatase Primary Antibody. Molecular Weight Marker. Lane 1: Alkaline Phosphatase. Load: 50 ng per lane. Primary antibody: Alkaline Phosphatase primary antibody at 1:1,000 overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody (p/n 611-1302) at 1:40,000 for 30 min at RT. Block: (p/n MB-070) for 30 min at RT. Predicted/Observed size: 58 kDa for Alkaline Phosphatase.

References

- Sobajima, T et al. Rab11a is required for apical protein localisation in the intestine. *Biology Open* (2014)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.