

Datasheet for 200-4134-0100**Alkaline Phosphatase Antibody****Overview**

Description:	Anti-Alkaline Phosphatase (E. coli) (RABBIT) Antibody - 200-4134-0100
Item No.:	200-4134-0100
Size:	100 µg
Applications:	WB, IF
Reactivity:	E. coli
Host Species:	Rabbit

Product Details

Background:	This Alkaline Phosphatase is from Escherichia coli. 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, Akp2 antibody, ALP antibody, Nagao isozyme antibody, Placental alkaline phosphatase antibody, Placental like alkaline phosphatase antibody, PLAP 1 antibody, PLAP like antibody, Regan isozyme antibody, Kasahara isozyme antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	phoA
Reactivity:	E. coli
Immunogen Type:	Native Protein
Immunogen:	Alkaline Phosphatase [E.coli]

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 [E.coli]. Cross reactivity against Alkaline Phosphatase from other tissues and species may occur but have not been specifically determined. Some minimal cross reactivity has been reported when lysates of cell extracts overproducing E.coli proteins are probed.

Relevant Links:

- [UniProtKB - P00634](#)
- [NCBI - NP_414917.2](#)
- [GeneID - 945041](#)

Application Details

Tested Applications: WB

Suggested Applications: IF (Based on references)

Application Note: Anti-Alkaline Phosphatase Antibody has been tested against 1.0 ug of Alkaline Phosphatase [E.coli] 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 1:25,000 to 1:125,000 of the reconstitution concentration is suggested for this product. A 1:10,000 dilution has been reported to be useful for the detection by immunoblot of an integral membrane protein from a gram-positive organism expressed as a LacZ/PhoA chimeric derivative in E.coli. The researcher should determine optimal titers for other applications.

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: 1.0 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: 100 µL

Reconstitution Buffer: Restore with deionized water (or equivalent)

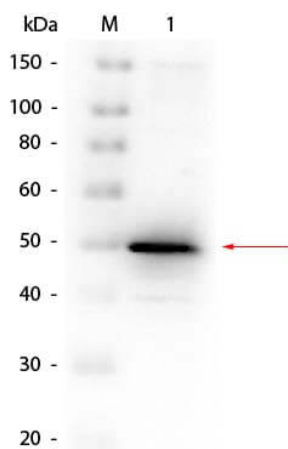
Shipping & Handling

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



Western Blot

Western Blot of Rabbit anti-Alkaline Phosphatase (E. Coli) Antibody. Lane 1: Alkaline Phosphatase (E. Coli). Load: 50 ng per lane. Primary antibody: Rabbit anti-Alkaline Phosphatase (E. Coli) Antibody at 1:1,000 overnight at 4°C. Secondary antibody: Peroxidase Rabbit secondary antibody (611-103-122) at 1:40,000 for 30 min at RT. Block: MB-070 for 30 min at RT. Predicted/Observed size: 50 kDa, 50 kDa for Alkaline Phosphatase (E. Coli).

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.