

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

Description:	Anti-Alkaline Phosphatase (E. coli) (RABBIT) Antibody - 200-4134S
Item No.:	200-4134S
Size:	25 µL
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: Liquid (sterile filtered)

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

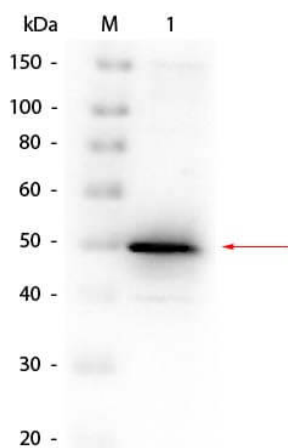
Preservative: 0.01% (w/v) Sodium Azide

Stabilizer: None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
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).

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.