

Datasheet for 100-4134**Alkaline Phosphatase Antibody****Overview**

Description:	Anti-Alkaline Phosphatase (E. coli) (RABBIT) Antibody - 100-4134
Item No.:	100-4134
Size:	2 mL
Applications:	ELISA, IP, WB
Reactivity:	E. coli
Host Species:	Rabbit

Product Details

Background:	Alkaline Phosphatase is an enzyme that is key in the hydrolysis of many different types of molecules, resulting in the removal of phosphate groups from said molecule. Most active in basic environments and a common serum analyte, alkaline phosphatase and its isoenzymes are good indicators of bone, liver, and testicular diseases/cancers in immunoassays and diagnostics. Anti-Alkaline Phosphatase (E. Coli) Antibody is ideal for investigators in Cancer, Immunology, and Molecular Biology.
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:	Antiserum

Target Details

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

Purity/Specificity:	Anti-Alkaline Phosphatase (E. Coli) Antibody was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-rabbit serum, purified and partially purified Alkaline Phosphatase [E.coli]. No cross reactivity occurs against the mammalian form of Alkaline Phosphatase.
Relevant Links:	• UniProtKB - P00634 • NCBI - NP_414917.2 • GeneID - 945041

Application Details

Tested Applications:	ELISA
Suggested Applications:	IP, WB (Based on references)
Application Note:	Anti-Alkaline Phosphatase (E. Coli) 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 1:20,000 to 1:100,000 of the reconstitution concentration is suggested for Anti-Alkaline Phosphatase (E. Coli) Antibody.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:8,000 to 1:40,000
WB:	1:500 - 1:2,000

Formulation

Physical State:	Lyophilized
Concentration:	75 mg/mL by Refractometry
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:	2.0 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.

References

- Miyazaki R et al. A photo-cross-linking approach to monitor folding and assembly of newly synthesized proteins in a living cell. *J Biol Chem.* (2018)
- Sobajima, T et al. Rab11a is required for apical protein localisation in the intestine. *Biology Open* (2014)

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