

Datasheet for 200-1335-0100**Alkaline Phosphatase Antibody HRP Conjugated****Overview**

Description:	Anti-Alkaline Phosphatase (Calf Intestine) (GOAT) Antibody Peroxidase Conjugated - 200-1335-0100
Item No.:	200-1335-0100
Size:	100 µg
Applications:	Dot Blot
Reactivity:	Bovine
Host Species:	Goat

Product Details

Background:	Alkaline Phosphatase is present in all tissues throughout the entire body, but is particularly concentrated in liver, bile duct, kidney, bone, and the placenta. Humans and most other mammals contain the following alkaline phosphatase isozymes: ALPI – intestinal, ALPL – tissue non-specific (liver/bone/kidney), ALPP – placental (Regan isozyme). Elevated ALP indicates that there could be active bone formation occurring as ALP is a byproduct of osteoblast activity (such as the case in Paget's disease of bone). Levels are also elevated in people with untreated Coeliac Disease. All mammalian alkaline phosphatase isoenzymes except placental (PALP and SEAP) are inhibited by homoarginine, and, in similar manner, all except the intestinal and placental ones are blocked by levamisole. Heating for ~2 hours at 65°C inactivated most isoenzymes except Placental isoforms (PALP and SEAP).
Synonyms:	goat anti-Alkaline Phosphatase Antibody HRP Conjugation, Peroxidase Conjugation goat anti-Alkaline Phosphatase Antibody, Alkaline phosphomonoesterase antibody, ALPI antibody, Glycerophosphatase antibody, IAP antibody, Intestinal alkaline phosphatase antibody, Kasahara isozyme antibody
Host Species:	Goat
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ALP1
Reactivity:	Bovine
Immunogen Type:	Native Protein
Immunogen:	Alkaline Phosphatase [Calf Intestine]
Purity/Specificity:	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-Peroxidase, anti-Goat Serum as well as purified and partially purified Alkaline Phosphatase [Calf Intestine]. Cross reactivity against Alkaline Phosphatase from other tissues and species may occur but have not been specifically determined.
Relevant Links:	• UniProtKB - P19111 • GeneID - 280993

Application Details

Tested Applications:	Dot Blot
Application Note:	Anti-Alkaline Phosphatase peroxidase has been tested by dot blot and is functional in ELISA, Western blot, and Immunohistochemical assays. Optimization should be reached by researcher.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:50,000
IHC:	User Optimized
WB:	1:1,000 - 1:5,000

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) Gentamicin Sulfate. Do NOT add Sodium Azide!
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
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.

Disclaimer

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