

**AP09101HR-S****Polyclonal Antibody to Alkaline phosphatase / ALPI / IAP - HRP**

<b>Alternate names:</b>	Intestinal alkaline phosphatase
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	1.0 mg/ml (by UV absorbance at 280 nm)
<b>Background:</b>	Alkaline phosphatase (ALP) removes phosphate groups from the 5' end of DNA and RNA, and from proteins, at high pH. Most mammals have 4 different isozymes: placental, placental like, intestinal and non tissue specific (found in liver, kidney and bone). Tissues with particularly high concentrations of ALP include the liver, bile ducts, placenta, and bone. Damaged or diseased tissue releases enzymes into the blood, so serum ALP measurements can be abnormal in many conditions, including bone disease and liver disease.
<b>Uniprot ID:</b>	<a href="#">P19111</a>
<b>NCBI:</b>	<a href="#">9913</a>
<b>Host / Isotype:</b>	Sheep / IgG
<b>Immunogen:</b>	Alkaline phosphatase from calf intestine
<b>Format:</b>	<b>State:</b> Lyophilized purified IgG fraction <b>Purification:</b> Multi-step process including delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer <b>Buffer System:</b> 0.02 M Potassium phosphate, 0.15 M Sodium chloride, pH 7.2 <b>Preservatives:</b> 0.01% (w/v) Gentamicin sulfate (Do NOT add Sodium azide!) <b>Stabilizers:</b> 10 mg/ml BSA (immunoglobulin and protease free) <b>Label:</b> HRP – Horseradish peroxidase <b>Reconstitution:</b> Restore with 0.1 ml of deionized water (or equivalent). For extended storage reconstitute product with 50% glycerol instead of water.
<b>Applications:</b>	<b>Western blot:</b> 1/500-1/2000. <b>ELISA:</b> 1/4000 to 1/20000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody reacts to bovine alkaline phosphatase. Cross reactivity against alkaline phosphatase from other tissues and species may occur but have not been specifically determined. Immuno-electrophoresis gives a single precipitin arc against anti-peroxidase, anti-sheep serum as well as purified and partially purified alkaline phosphatase [calf intestine]. <b>Species:</b> Bovine. Other species not tested.
<b>Storage:</b>	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

**Caution:**

Do NOT add Sodium azide!