

Product datasheet for **TA354370**

Alkaline Phosphatase (ALPP) Mouse Monoclonal Antibody [Clone ID: SPM372]

Product data:

Product Type:	Primary Antibodies
Clone Name:	SPM372
Applications:	WB
Recommended Dilution:	WB 0.1-1 µg/ml ELISA 0.01-0.1 µg/ml IP 2-5 µg/ml IHC 2-10 µg/ml FC 5-10 µg/ml
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Alkaline phosphatase derived from bovine intestine.
Formulation:	This affinity purified antibody is supplied in sterile Phosphate buffered saline (pH7.2) containing antibody stabilizer.
Purification:	The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	~50 kDa
Gene Name:	alkaline phosphatase, placental
Database Link:	NP_001623 Entrez Gene 250 Human P05187



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Background:

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. Alkaline phosphatases catalyze the hydrolysis reaction via a phosphoseryl intermediate to produce inorganic phosphate and the corresponding alcohol, optimally at high pH. Alkaline phosphatase exists as a dimer, each monomer binding 2 zinc atoms and one magnesium atom, which are essential for enzymatic activity.

Synonyms:

ALP; PALP; PLAP; PLAP-1

Protein Pathways:

Folate biosynthesis, Metabolic pathways

Product images:

WB: The bovine alkaline phosphatase was resolved onto 10% SDSPAGE, transferred onto NC membrane, and followed by an immunoblotting with Mouse anti-Alkaline phosphatase antibody at 1:500. An immunoreactive band is observed around ~50 kDa.