

# Immunotag™ PLAP Monoclonal Antibody

Antibody Specification	
Catalog No.	ITM0522
Product Description	Immunotag™ PLAP Monoclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	PLAP
Clonality	Monoclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC-p,ELISA
Recommended Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human
Host Species	Mouse
Immunogen	Purified recombinant fragment of human PLAP expressed in E. Coli.
Specificity	PLAP Monoclonal Antibody detects endogenous levels of PLAP protein.
Purification	Affinity purification
Form	Ascitic fluid containing 0.03% sodium azide.
Gene Name	ALPP
Accession No.	P05187
Alternate Names	ALPP; PLAP; Alkaline phosphatase; placental type; Alkaline phosphatase Regan isozyme; Placental alkaline phosphatase 1; PLAP-1

## Antibody Specification

Description	alkaline phosphatase, placental(ALPP) Homo sapiens The protein encoded by this gene is an alkaline phosphatase, a metalloenzyme that catalyzes the hydrolysis of phosphoric acid monoesters. It belongs to a multigene family composed of four alkaline phosphatase isoenzymes. The enzyme functions as a homodimer and has a catalytic site containing one magnesium and two zinc ions, which are required for its enzymatic function. The protein is primarily expressed in placental and endometrial tissue; however, strong ectopic expression has been detected in ovarian adenocarcinoma, serous cystadenocarcinoma, and other ovarian cancer cells. [provided by RefSeq, Jan 2015],
Cell Pathway/ Category	Folate biosynthesis,
Protein Expression	Cervix,Placenta,
Subcellular Localization	plasma membrane,cell surface,integral component of membrane,anchored component of membrane,
Protein Function	catalytic activity:A phosphate monoester + H(2)O = an alcohol + phosphate.,cofactor:Binds 1 magnesium ion.,cofactor:Binds 2 zinc ions.,miscellaneous:In most mammals there are four different isozymes: placental, placental-like, intestinal and tissue non-specific (liver/bone/kidney).,online information:Alkaline phosphatase entry,polymorphism:Placental ALP is highly polymorphic, there are at least three common alleles.,similarity:Belongs to the alkaline phosphatase family.,subunit:Homodimer.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.