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Alkaline Phosphatase (Placental) / PLAP (Germ Cell Tumor Marker) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone ALPP/516]
Catalog # AH11257

Product Information

Application	IF, FC, IHC-F
Primary Accession	P05187
Other Accession	250, 284255
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Clone Names	ALPP/516
Calculated MW	57954

Additional Information

Gene ID	250
Other Names	Alkaline phosphatase, placental type, 3.1.3.1, Alkaline phosphatase Regan isozyme, Placental alkaline phosphatase 1, PLAP-1, ALPP, PLAP
Application Note	IF~~1:50~200 FC~~1:10~50 IHC-F~~N/A
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	Alkaline Phosphatase (Placental) / PLAP (Germ Cell Tumor Marker) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ALPP (HGNC:439)
Function	Alkaline phosphatase that can hydrolyze various phosphate compounds.
Cellular Location	Cell membrane; Lipid-anchor, GPI-anchor
Tissue Location	Detected in placenta (at protein level).

Background

PLAP is a tissue specific, trophoblast-derived, 70kDa, glycosyl-phosphatidylinositol (GPI)-anchored, dimeric,

Zn2+ metallo-glycoprotein that catalyzes the hydrolysis of phosphomonoesters into an inorganic phosphate and an alcohol. It is present in the placenta and serum of pregnant women and in high frequency in gynecological and testicular cancers and in lower frequency in other tumors. The three tissue-specific APā€™s in humans, PLAP, germ cell AP (GCAP) and intestinal AP, are 90-98% homologous. Non-tissue specific AP is found in kidney, liver and bone. This MAb binds equally well to all common allelic variants (S, F, FS and I) of PLAP and to some variants of AP from normal human testis. This MAb can be used as tracer antibody in ELISA to detect PLAP in serum of S, F, FS and I phenotypes.

References

Millan J.L. et. al., Antigenic determinants of human placental and testicular alkaline phosphatase as mapped by monoclonal antibodies. Eur. J. Biochem. 136: 1-12, (1983). | Riklund K.E. et. al., Experimental radio-immunotherapy of HeLa tumors in nude mice with 131I-labeled monoclonal antibodies. Anticancer Research, 1990, 10:379-84