

Placental alkaline phosphatase (PLAP) mouse mAb

Catalog No :	YM1349
Reactivity :	Human
Applications :	WB
Target :	PLAP
Fields :	>>Thiamine metabolism;>>Folate biosynthesis;>>Metabolic pathways;>>Biosynthesis of cofactors
Gene Name :	alpp
Human Gene Id :	250
Human Swiss Prot No :	P05187
Immunogen :	Purified recombinant Placental alkaline phosphatase (PLAP) protein fragments expressed in E.coli.
Specificity :	This antibody detects endogenous levels of Placental alkaline phosphatase (PLAP) and does not cross-react with related proteins.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	wb 1:1000
Purification :	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	70kD

Cell Pathway : Folate biosynthesis;

Background : 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],

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.,

Subcellular Location : Cell membrane; Lipid-anchor, GPI-anchor .

Expression : Detected in placenta (at protein level).

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