

**Placental alkaline phosphatase (PLAP) mouse mAb**

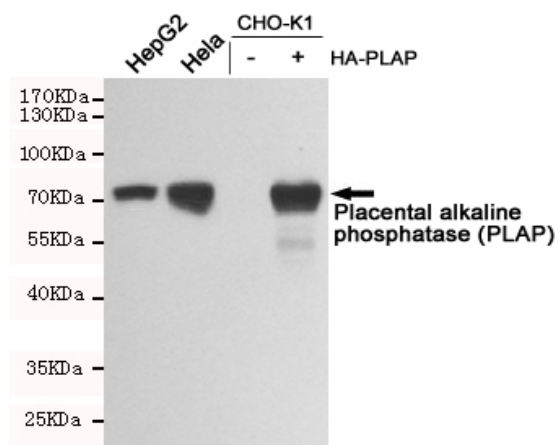
<b>Catalog No :</b>	YM1349
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB
<b>Target :</b>	PLAP
<b>Fields :</b>	>>Thiamine metabolism;>>Folate biosynthesis;>>Metabolic pathways;>>Biosynthesis of cofactors
<b>Gene Name :</b>	alpp
<b>Human Gene Id :</b>	250
<b>Human Swiss Prot No :</b>	P05187
<b>Immunogen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

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<b>Cell Pathway :</b>	Folate biosynthesis;
<b>Background :</b>	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],
<b>Function :</b>	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.,
<b>Subcellular Location :</b>	Cell membrane; Lipid-anchor, GPI-anchor .
<b>Expression :</b>	Detected in placenta (at protein level).
<b>Tag :</b>	hot
<b>Sort :</b>	12801
<b>No4 :</b>	1
<b>Host :</b>	Mouse
<b>Modifications :</b>	Unmodified

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## Products Images



Western blot analysis of extracts from HepG2, HeLa, CHO-K1 and CHO-K1 transfected pcDNA3.1-HA-PLAP cell lysates using Placental alkaline phosphatase (PLAP) mouse mAb (1:1000 diluted). Predicted band size: 70 kDa. Observed band size: 70 kDa.