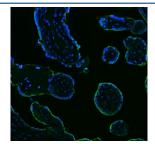


Placental Alkaline Phosphatase Antibody / ALPP / PLAP [clone 6C7G3] (RQ6933)

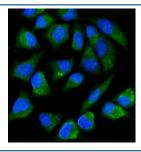
Catalog No.	Formulation	Size
RQ6933	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

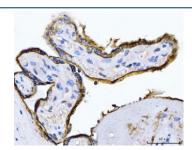
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	6C7G3
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P05187
Localization	Cytoplasmic and cell surface
Applications	Western Blot : 0.5-1 ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This Placental Alkaline Phosphatase antibody is available for research use only.



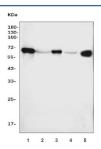
Immunofluorescent staining of FFPE human placental tissue with Placental Alkaline Phosphatase antibody (green) and DAPI nuclear stain (blue). HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



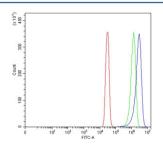
Immunofluorescent staining of FFPE human HeLa cells with Placental Alkaline Phosphatase antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



IHC staining of FFPE human placental tissue with Placental Alkaline Phosphatase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of human 1) placenta, 2) HepG2, 3) A431, 4) HeLa and 5) SW620 cell lysate with Placental Alkaline Phosphatase antibody. Predicted molecular weight ~58 kDa but routinely visualized at 60-70 kDa.



Flow cytometry testing of human SiHa cells with Placental Alkaline Phosphatase antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Placental Alkaline Phosphatase antibody.

Description

Alkaline phosphatase, placental type also known as placental alkaline phosphatase (PLAP) is an allosteric enzyme that in humans is encoded by the ALPP gene. 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.

Application Notes

Optimal dilution of the Placental Alkaline Phosphatase antibody should be determined by the researcher.

Immunogen

C-terminal amino acids KARDRKAYTVLLYGNGPGYVLKDGARPDVTE were used as the immunogen for the Placental Alkaline Phosphatase antibody.

Storage After reconstitution, the Placental Alkaline Phosphatase antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.