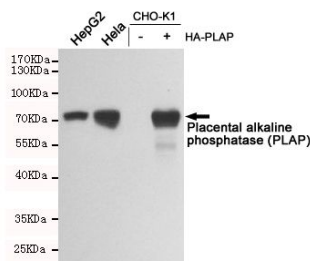




PLAP

Mouse monoclonal Antibody

#53306

Catalog Number: 53306**Amount:** 100µg/100µl**Swiss-Prot No. :** P05187**Gene name:** alpp**Gene id:** 250**Clone Number:** 8A11-C11-C9**Form of Antibody:** Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol**Storage/Stability:** Store at -20°C/1 year**Immunogen:** Purified recombinant human PLAP protein fragments expressed in E.coli**Purification:** affinity-chromatography**Specificity/Sensitivity:** This antibody detects endogenous levels of PLAP and does not cross-react with related proteins**Reactivity:** Human**Applications:** Predicted MW: 70kd WB: 1:1000

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: 70KDa. Observed band size: 70KDa.

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.