# Alkaline Phosphatase (Placental) / PLAP (Germ Cell Tumor Marker) Antibody

Mouse Monoclonal Antibody [Clone ALPP/4109]

| Catalog No | Format | Size |
|---|---|---|
| 250-MSM9-P0 | Purified Ab with BSA and Azide at 200ug/ml | 20 ug |
| 250-MSM9-P1 | Purified Ab with BSA and Azide at 200ug/ml | 100 ug |
| 250-MSM9-P1ABX | Purified Ab WITHOUT BSA and Azide at 1.0mg/ml | 100 ug |

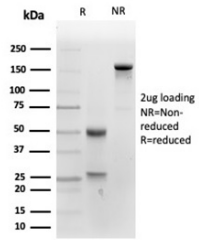
| Applications | Tested Dillution | Note |
|---|---|---|
| Immunohistochemistry (IHC) | 1-2ug/ml | 30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes |

## Product Details

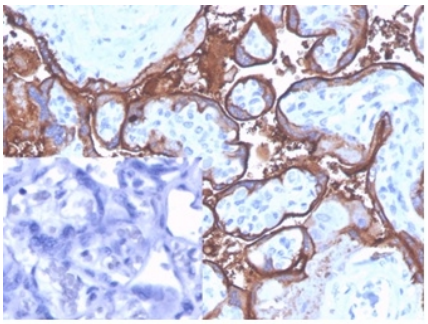
| | |
|---|---|
| **Clone** | ALPP/4109 |
| **Gene Name** | ALPP |
| **Immunogen** | Recombinant full-length human ALPP protein |
| **Host** | Mouse |
| **Clonality** | Monoclonal |
| **Isotype / Light Chain** | IgG2b / Kappa |
| **Mol. Weight of Antigen** | 70kDa |
| **Cellular Localization** | Cell membrane |
| **Species Reactivity** | Human |
| **Positive Control** | JEG-3 or HepG2 cells. Human placenta or seminoma. |

**Optimal dilution for a specific application should be determined.*

## Product Images for Alkaline Phosphatase (Placental) / PLAP (Germ Cell Tumor Marker) Antibody




SDS-PAGE Analysis of Purified PLAP Mouse Monoclonal Antibody (ALPP/4109). Confirmation of Integrity and Purity of Antibody.



IHC analysis of formalin-fixed, paraffin-embedded human placenta stainedusing ALPP/4109 at 2ug/ml in PBS for 30min RT. Inset: PBS used instead of the primary antibody as the negative control.

## Specificity & Comments

Reacts with a 70kDa membrane-bound isozyme (Regan and Nagao type) of Placental Alkaline Phosphatase (PLAP) occurring in the placenta during the 3rd trimester of gestation. It is highly specific for PLAP and shows no cross-reaction with other isozymes of alkaline phosphatase. Anti-PLAP reacts with germ cell tumors and can discriminate between these and other neoplasms. Somatic neoplasms e.g. breast, gastrointestinal, prostatic, and urinary cancers may also immunoreact with antibodies to PLAP. Anti-PLAP positivity in conjunction with anti-keratin negativity favors seminoma over carcinoma. Germ cell tumors are usually anti-keratin positive, but they regularly fail to stain with anti-EMA, whereas most carcinomas stain with anti-EMA. Anti-PLAP has been useful in the diagnosis of gestational trophoblastic disease.

## Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

## Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

## Research Areas

Mesenchymal Stem Cell Differentiation, Stem Cell Differentiation

## Limitations and Warranty