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## Anti-Human Placental Alkaline Phosphatase Purified

**Catalog Number:** 14-9870

**Also known as:** PLAP

**RUO: For Research Use Only. Not for use in diagnostic procedures.**

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### Product Information

**Contents:** Anti-Human Placental Alkaline Phosphatase Purified  
**Catalog Number:** 14-9870  
**Clone:** 8B6  
**Concentration:** 0.5 mg/mL  
**Host/Isotype:** Mouse IgG2a, kappa



**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer  
**Temperature Limitation:** Store at 2-8°C.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

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### Description

The monoclonal antibody 8B6 recognizes human Placental Alkaline Phosphatase (PLAP), a 130 (or 130 with 65 kDa) enzyme expressed by placental syncytiotrophoblastoid cells. This enzyme has slightly different enzyme kinetics from other phosphatases. PLAP can be found anchored to the plasma membrane in addition to the cytoplasm. Expression is found in several germ line cancers; ovarian and testicular. Expression is also present in human embryonic stem cells and bone marrow-derived mesenchymal stromal cells.

This 8B6 antibody reacts with both the Regan and Nagao isozymes.

### Applications Reported

This 8B6 antibody has been reported for use in immunohistochemical staining of frozen (IHC-F) and formalin-fixed paraffin embedded (IHC-P) tissue, and ELISA.

### Applications Tested

This 8B6 antibody has been tested by immunohistochemistry on formalin-fixed paraffin embedded (FFPE) human placenta with trypsin digestion. This antibody can be used at less than or equal to 5 ug/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Pilz GA, Ulrich C, Ruh M, Abele H, Schäfer R, Kluba T, Bühring HJ, Rolaufts B, Aicher WK. Human term placenta-derived mesenchymal stromal cells are less prone to osteogenic differentiation than bone marrow-derived mesenchymal stromal cells. *Stem Cells Dev.* 2011 20:635-46.

Durbin H, Tucker DF, Milligan EM, Bibriw LG, Warne LG, PH, Pookim YL, Bodmer, WF. Production of monoclonal antibodies to placental alkaline phosphatase: Preliminary characterization includes identification of one antibody reactive with routinely fixed histological preparations. *Int J Cancer Suppl.* 1988 2:50-8. (8B6, mAb characterization)

Goldstein HDL, Blasco L, H Harris Placental alkaline phosphatase in nonmalignant human cervix. *Proc Natl Acad Sci U S A.* 1980 77(7): 4226-4228.

### Related Products

00-4953 IHC /ICC Blocking Buffer - Low Protein  
00-4954 20X TBS Wash Buffer for IHC/ICC  
14-4724 Mouse IgG2a K Isotype Control Purified

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