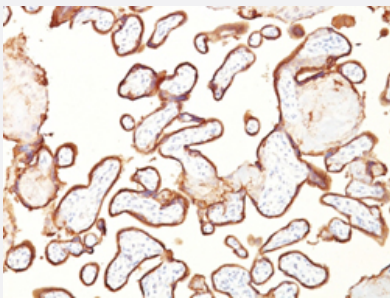


# ALPP monoclonal antibody, clone GM022

Catalog # MAB14266      Size 100 ug

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human placenta with ALPP monoclonal antibody, clone GM022 (Cat # MAB14266).

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against full length recombinant human ALPP.
<b>Immunogen</b>	Recombinant protein corresponding to full length human ALPP.
<b>Host</b>	Mouse
<b>Theoretical MW (kDa)</b>	70
<b>Reactivity</b>	Human
<b>Specificity</b>	This monoclonal antibody reacts with a membrane-bound isozyme (Regan and Nagao type) of ALPP occurring in the placenta during the 3rd trimester of gestation. It is highly specific for PLAP and show s no cross-reaction with other isozymes of alkaline phosphatase.
<b>Form</b>	Liquid
<b>Purification</b>	Protein A/G purification
<b>Isotype</b>	IgG2b, kappa

**Recommend Usage**

Flow Cytometry (0.5-1 ug/10<sup>6</sup> cells in 0.1 mL)  
Immunofluorescence (0.5-1 ug/mL)  
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (0.25-0.5 ug/mL)  
The optimal working dilution should be determined by the end user.

**Storage Buffer**

In 10 mM PBS.

**Storage Instruction**

Store at -20 to -80°C.  
Aliquot to avoid repeated freezing and thawing.

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human placenta with ALPP monoclonal antibody, clone GM022 (Cat # MAB14266).

- Immunofluorescence

- Flow Cytometry

## Gene Info — ALPP

**Entrez GeneID**

[250](#)

**Protein Accession#**

[P05187](#)

**Gene Name**

ALPP

**Gene Alias**

ALP, FLJ61142, PALP, PLAP

**Gene Description**

alkaline phosphatase, placental (Regan isozyme)

**Omim ID**

[171800](#)

**Gene Ontology**

[Hyperlink](#)

**Gene Summary**

There are at least four distinct but related alkaline phosphatases: intestinal, placental, placental-like, and liver/bone/kidney (tissue non-specific). The first three are located together on chromosome 2 while the tissue non-specific form is located on chromosome 1. The product of this gene is a membrane bound glycosylated enzyme, also referred to as the heat stable form, that is expressed primarily in the placenta although it is closely related to the intestinal form of the enzyme as well as to the placental-like form. The coding sequence for this form of alkaline phosphatase is unique in that the 3' untranslated region contains multiple copies of an Alu family repeat. In addition, this gene is polymorphic and three common alleles (type 1, type 2 and type 3) for this form of alkaline phosphatase have been well characterized. [provided by RefSeq]

**Other Designations**

alkaline phosphomonoesterase|glycerophosphatase|placental alkaline phosphatase

**Pathway**

- [Folate biosynthesis](#)
- [gamma-Hexachlorocyclohexane degradation](#)
- [Metabolic pathways](#)

**Disease**

- [Birth Weight](#)
- [Fetal Death](#)