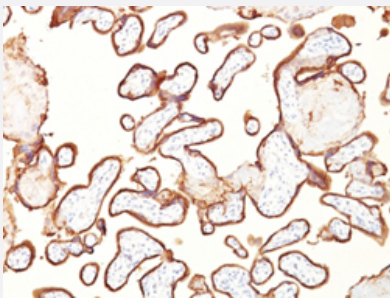


ALPP monoclonal antibody, clone GM022

Catalog # MAB14265 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 # MAB14265).

Specification

Product Description	Mouse monoclonal antibody raised against full length recombinant human ALPP.
Immunogen	Recombinant protein corresponding to full length human ALPP.
Host	Mouse
Theoretical MW (kDa)	70
Reactivity	Human
Specificity	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.
Form	Liquid
Purification	Protein A/G purification
Isotype	IgG2b, kappa

Recommend Usage

Flow Cytometry (0.5-1 ug/10⁶ 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 (0.05% BSA, 0.05% sodium azide).

Storage Instruction

Store at 4°C.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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 # MAB14265).

- 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](#)