

Product Information

MemDX™ Membrane Protein Human ALPP (Alkaline phosphatase, placental) Expressed *in vitro* E.coli expression system, Full Length of Mature Protein

Cat. No.: **MPX1856K**

This product is for research use only and is not intended for diagnostic use.

This product is a Human ALPP membrane protein expressed *in vitro* E.coli expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

ALPP

Protein Length

Full Length of Mature Protein

Protein Class

Receptor

TMD

1

Sequence

IIPVEEENPDFWNREAAEALGAACKLQPAQTAAKNLIIFLGDMGVSTVTAARILKGQKKDKLGPEIPLAMDRFPYVALSKTYNVDKH

Product Description

Expression Systems

in vitro E.coli expression system

Tag

10xHis tag at the N-terminus

Protein Format

Soluble

Form

Liquid or Lyophilized powder

Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

ALPP

Full Name

Alkaline phosphatase, placental

Introduction

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. One of the main sources of this enzyme is the liver, and thus, it's one of several indicators of liver injury in different clinical conditions. In pregnant women, this 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.

Alternative Names

ALPP; ALP; IAP; ALPI; PALP; PLAP; PLAP-1; alkaline phosphatase, placental type; Intestinal alkaline phosphatase; Intestinal-type alkaline phosphatase; alkaline phosphatase Regan isozyme; alkaline phosphomonoesterase; glycerophosphatase; placental alkaline phosphatase 1; Alkaline phosphatase, placental

Gene ID

[250](#)

UniProt ID

[P05187](#)