

Product Information

MemDX™ Membrane Protein Human ALPP (Alkaline phosphatase, placental) Full Length

Cat. No.: **MPC3952K**

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

This product is a made-to-order Human ALPP membrane protein expressed in HEK293. 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

Protein Class

Receptor

TMD

1

Sequence

MLGPCMLLLLLLGLRLQLSLGIIPVEEENPDFWNREAAEALGAAKKLQP
AQTAANKLIIFLGDMGVSTVTAARILKGQKKDKLGPEIPLAMDRFPYVA
LSKTYNVDKHVPDSGATATAYLCGVKGNFQTIGLSAAARFNQCNTTRGNE
VISVMNRKAGKSGVGVTTTRVQHASPAGTYAHTVNRNWYSDADVPASA
RQEGCQDIATQLISNMDIDVILGGGRKYMFRMGTPDPEYPDDYSQGGTRL
DGKNLVQEWLAKRQGARYVWNRTELMQASLDPSVTHLMGLFEPGDMKYEI
HRDSTLDPSLMEMTEAALRLLSRNPRGFLLFVEGGRIDHGHESRAYRAL
TETIMFDDAIERAGQLTSEEDTLSLVTADHSHVFSFGGYPLRGSSIFGLA
PGKARDRKAYTVLLYGNGPGYVLKDGARPDVTESESGSPEYRQQSAVPLD
EETHAGEDVAVFARGPQAHLVHGVQEQTFAHVMAFAACLEPYTACDLAP
PAGTTDAAHPGRSVVPALLPLLAGTLLLLLETATAP

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°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](#)