Datasheet for ABIN7505728

# ALPL Protein (AA 1-502) (His tag)

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## Overview

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| Quantity: | 100 µg |
| Target: | ALPL |
| Protein Characteristics: | AA 1-502 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This ALPL protein is labelled with His tag. |

## Product Details

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| Sequence: | Met1-Ser502 |
| Characteristics: | A DNA sequence encoding theMouse ALPL protein (P09242) (Met1-Ser502) was expressed with a C-His. |
| Purity: | > 80 % as determined by reducing SDS-PAGE. |

## Target Details

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| Target: | ALPL |
| Alternative Name: | ALPL (ALPL Products) |
| Background: | Abbreviation: ALPL<br>Target Synonym: AP-TNAP,TNAP,TNSALP,Alkaline phosphatase 2,Alkaline phosphatase liver/bone/kidney isozyme,Phosphoamidase,Phosphocreatine phosphatase<br>Background: Alkaline phosphatase (ALPL) is a hydrolase enzyme responsible for removing |

## Target Details

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| | phosphate groups from many types of molecules, including nucleotides, proteins, and alkaloids. The process of removing the phosphate group is called dephosphorylation. As the name suggests, alkaline phosphatases are most effective in an alkaline environment. It is sometimes used synonymously as basic phosphatase. Alkaline phosphatases (APs) are ubiquitous in many species, from bacteria to human. Four genes encode AP isoenzymes in humans and rodents. Three AP genes are expressed in a tissue-specific manner (i.e., placental, embryonic, and intestinal AP isoenzymes). Expression of the fourth AP gene is nonspecific to a single tissue and is especially abundant in bone, liver, and kidney. This isoenzyme is also called tissue-nonspecific alkaline phosphatase (TNAP). The enzyme tissue non-specific alkaline phosphatase (TNAP) belongs to the ectophosphatase family. TNAP is present in large amounts in bone in which it plays a role in mineralization. |
| Molecular Weight: | Calculated MW: 52 kDa<br>Observed MW: 70 kDa |
| UniProt: | P09242 |

## Application Details

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| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Buffer: | Lyophilized from sterile PBS, pH 7.4.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. |
| Storage: | 4 °C,-20 °C,-80 °C |
| Storage Comment: | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| Expiry Date: | 12 months |