

# Recombinant human ARLTS1/ARL11 protein

Catalog Number: ATGP1130

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-196aa

### UniProt No.

Q969Q4

### NCBI Accession No.

NP\_612459

### Alternative Names

ADP-ribosylation factor-like 11, ARLTS1, ADP ribosylation factor like GTPase 11, ADP-ribosylation factor-like tumor suppressor gene 1

## PRODUCT SPECIFICATION

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### Molecular Weight

23.6 kDa (216aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 30% glycerol, 100mM NaCl, 1mM EDTA

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

ARL11 (ADP-ribosylation factor-like protein 11), is a member of the ARF family of the Ras superfamily of small GTPases that are known to be involved in multiple regulatory pathways altered in human carcinogenesis. ARFs are highly conserved guanine nucleotide binding proteins that enhance the ADP-ribosyltransferase activity of cholera toxin. ARFs are important in eukaryotic vesicular trafficking pathways and they play an essential role in the activation of phospholipase D (PC-PLD). ARL11 is thought to function as a tumor suppressor that may play a

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role in the regulation of apoptosis. Recombinant human ARL11 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

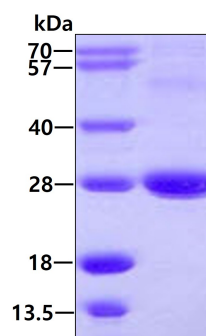
<MGSSHHHHHH SSGLVPRGSH> MGSVNSRGHK AEAQVMMGL DSAGKTTLLY KLKGHQLVET LPTVGFNVEP  
LKAPGHVSLT LWDVGGQAPL RASWKDYLEG TDILVYVLDS TDEARLPESA AELTEVLNDP NMAGVPFLVL ANKQEAPDAL  
PLLKIRNRLS LERFQDHCWE LRGCSALTGE GLPEALQSLW SLLKSRSCMC LQARAHGAER GDSKRS

## General References

Yendamuri S., et al (2008) *Cancer Lett.* 264(1):11-20.  
Calin G.A., et al (2005) *N. Engl. J. Med.* 352:1667-1676.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.