

# Recombinant mouse LRPAP protein

Catalog Number: ATGP3133

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

29-360aa

### UniProt No.

P55302

### NCBI Accession No.

NP\_038615

### Alternative Names

Alpha-2-macroglobulin receptor-associated protein, Alpha 2 macroglobulin receptor associated protein, AA617339, AI790446, AU042172, C77774, HBP44, RAP

## PRODUCT SPECIFICATION

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### Molecular Weight

41.4 kDa (355aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### 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

Lrpap1 also known as Alpha-2-macroglobulin receptor-associated protein. The alpha-2-macroglobulin receptor-associated protein (RAP) is a glycoprotein that binds to the alpha-2-macroglobulin receptor, as well as to other members of the low density lipoprotein receptor family. Lrpap1 acts to inhibit the binding of all known ligands for these receptors, and may prevent receptor aggregation and degradation in the endoplasmic reticulum, thereby acting as a molecular chaperone. Lrpap1 may be under the regulatory control of calmodulin, since it is able to

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bind calmodulin and be phosphorylated by calmodulin-dependent kinase II. Recombinant mouse Lspap1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

### Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>QPIAGHG GKYSREKNEP EMAAKRESGE EFRMEKLNQL WEKAKRLHLS  
PVRLAELHSD LKIQERDELN WKKLKVEGLD KDGEKEAKLI HNLNVILARY GLDGRKDAQM VHSNALNEDT QDELGDPRLE  
KLWHKAKTSG KFSSEELDKL WREFLHYKEK IQEYNVLLDT LSRAEEGYEN LLSPSDMAHI KSDTLISKHS ELKDRLRSIN  
QGLDRLRKVS HQGYGSTTEF EEPRLVDLWD LAQSANFTEK ELESFRELK HFEAKIEKHN HYQKQLEISH QCLKHVESIG  
DPEHISRNKE KYVLLEETK ELGYKVKKHL QDLSSRVSR RHNEL

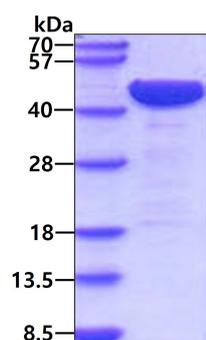
### General References

Strickland D.K., et al. (1991) J. Biol. Chem. 266:13364-13369.

Van Leuven F., et al. (1998) Genomics 52:145-151.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.