

## Recombinant Mouse Lrpap1, His-tagged

**Cat. No.** Lrpap1-113M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant mouse Lspap1, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	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 know 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 bind calmodulin and be phosphorylated by calmodulin-dependent kinase II.
<b>Form</b>	Liquid, In Phosphate buffered saline (pH7.4) containing 10% glycerol
<b>Molecular Mass</b>	41.4kDa (355aa) confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSQPIAGHG GKYSREKNEP EMAAKRESGE EFRMEKLNQL WEKAKRLHLS PVRLAELHSD LKIQERDELNWKKLKVEGLD KDGEKEAKLI HNLNVILARY GLDGRKDAQM VHSNALNEDT QDELGDPRLE KLWHKAKTSG KFSSEELDKL WREFLHYKEK IQEYNVLLDT LSRAEEGYEN LLSPSDMAHI KSDTLISKHS ELKDRRLRSIN QGLDRLRKVS HQGYGSTTEF

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EEPRVIDLWD LAQSANFTEKELESFREELK HFEAKIEKHN HYQKQLEISH  
QKCLKHVESIG DPEHISRNKE KYVLLEEKTK ELGYKVKKHL QDLSSRVSRA RHNEL

**Purity** >90% by SDS - PAGE

**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

**Concentration** 1mg/ml (determined by Absorbance at 280nm)

## GENE INFORMATION

**Gene Name** [Lrpap1 low density lipoprotein receptor-related protein associated protein 1 \[ Mus musculus \]](#)

**Official Symbol** Lrpap1

**Synonyms** LRPAP1; low density lipoprotein receptor-related protein associated protein 1; alpha-2-macroglobulin receptor-associated protein; HBP-44; alpha-2-MRAP; heparin-binding protein 44; low density lipoprotein receptor-related protein-associated protein 1; low density lipoprotein receptor related protein, associated protein 1; Alpha-2-macroglobulin receptor-associated protein precursor (Alpha-2-MRAP) (Low density lipoprotein receptor-related protein-associated protein 1) (RAP) (Heparin binding protein-44) (HBP-44); RAP; HBP44; C77774; AA617339; AI790446; AU042172;

**Gene ID** [16976](#)

**mRNA Refseq** [NM\\_013587](#)

**Protein Refseq** [NP\\_038615](#)

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**Function**

heparin binding; lipase binding; low-density lipoprotein particle receptor binding; low-density lipoprotein particle receptor binding; receptor activity; receptor antagonist activity; very-low-density lipoprotein particle receptor binding;

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