

Recombinant Human Low Density Lipoprotein Receptor-Related Protein Associated Protein 1

Cat. No. LRPAP1-1251H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human LRPAP1 is expressed in E. coli.
Species	Human
Source	E.coli
Description	LRPAP1 is a 39 kDa receptor-associated protein capable of universally inhibiting ligand interaction with members of the LDL Receptor family that mediate endocytosis and signal transduction of many extracellular ligands which participate in lipoprotein metabolism, protease regulation, embryonic development, and the pathogenesis of disease. It also binds tightly to gp330, an endocytic receptor that resembles LRP and is abundantly expressed in the kidney, and to the Very Low Density Lipoprotein (VLDL) Receptor. LRPAP1 promotes the proper folding of these receptors, a function that is likely independent from its ability to inhibit ligand binding. Some evidence suggests LRPAP1 may play a role in regulating the expression of LRP, possibly by stabilizing the receptor during biosynthesis or transport along the secretory pathway, and could be a short-acting modulator of LRP activity.
Form	Frozen Liquid in 0.1M Tris-HCl + 0.1 M NaCl pH 7.4.
Concentration	2.5 mg/mL
Molecular Weight	39 kDa

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Applications	Suitable to block receptor function in uptake assays.
Storage	Store at -70°C. 3 years. Avoid repeated freeze-thaw cycles.
Official Symbol	LRPAP1
GENE INFORMATION	
Gene Name	LRPAP1 low density lipoprotein receptor-related protein associated protein 1 [Homosapiens]
Synonyms	LRPAP1; low density lipoprotein receptor-related protein associated protein 1; RAP; MRAP; A2RAP; HBP44; A2MRAP; MGC138272; alpha-2-macroglobulin receptor-associated protein; alpha-2-MRAP; OTTHUMP00000115346; OTTHUMP00000217120; alpha-2-macroglobulin receptor-associated protein 1; low-density lipoprotein receptor-related protein associated protein 1; low-density lipoprotein-related protein-associated protein 1 (alpha-2-macroglobulin receptor-associated protein 1); lipoprotein receptor associated protein
Gene ID	4043
mRNA Refseq	NM_002337
Protein Refseq	NP_0023328
MIM	104225
UniProt ID	P30533
Chromosome Location	4p16.3

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Pathway	Lissencephaly gene(LIS1) in neuronal migration and development; Reelin signaling pathway; Signalingevents mediated by the Hedgehog family
Function	heparinbinding; lipase binding; unfolded protein binding; low-density lipoproteinparticle receptor binding; asialoglycoprotein receptor activity; receptorantagonist activity; very-low-density lipoprotein particle receptor binding
PDB rendering basedon 1lre.	

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