

LRPAP1 Protein, Human (HEK293, C-His)

Cat. No.:	HY-P76478A
Synonyms:	Alpha-2-macroglobulin receptor-associated protein; Alpha-2-MRAP; RAP; A2MRAP
Species:	Human
Source:	HEK293
Accession:	P30533 (Y35-L357)
Gene ID:	4043
Molecular Weight:	Approximately 42 kDa.

PROPERTIES

AA Sequence	<pre> Y S R E K N Q P K P S P K R E S G E E F R M E K L N Q L W E K A Q R L H L P P V R L A E L H A D L K I Q E R D E L A W K K L K L D G L D E D G E K E A R L I R N L N V I L A K Y G L D G K K D A R Q V T S N S L S G T Q E D G L D D P R L E K L W H K A K T S G K F S G E E L D K L W R E F L H H K E K V H E Y N V L L E T L S R T E E I H E N V I S P S D L S D I K G S V L H S R H T E L K E K L R S I N Q G L D R L R R V S H Q G Y S T E A E F E E P R V I D L W D L A Q S A N L T D K E L E A F R E E L K H F E A K I E K H N H Y Q K Q L E I A H E K L R H A E S V G D G E R V S R S R E K H A L L E G R T K E L G Y T V K K H L Q D L S G R I S R A R H N E L </pre>
Biological Activity	Immobilized LRPAP1 at 0.5 µg/mL (100 µL/well) can bind Biotinylated VLDLR protein. The ED ₅₀ for this effect is 0.5626 nM.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	LRPAP1 protein serves as a molecular chaperone for LDL receptor-related proteins, contributing to the regulation of their
-------------------	---

ligand binding activity throughout the secretory pathway. Notably, LRPAP1 engages in transient interactions with the LRP1/alpha-2-macroglobulin receptor heavy and light chains, coinciding with a reduction in ligand binding by the receptor. Additionally, LRPAP1 forms interactions with LRP2/glycoprotein 330, LDLR, and SORL1, with diverse outcomes ranging from internalization and degradation to modulating ligand binding. The intricate network of interactions underscores the multifaceted role of LRPAP1 in orchestrating the function and trafficking of LDL receptor-related proteins.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA