

Rabbit Anti-LRP/MVP/PE Conjugated antibody

SL0661R-PE

Product Name	Anti-LRP/MVP/PE
Chinese Name	PE 标记的肺耐药相关蛋白抗体
Alias	2310009M24Rik; LRP; Lung Resistance Related Protein; Lung resistance-related protein; Major Vault Protein; MVP; MVP_HUMAN; VAULT 1; VAULT1.
Research Area	Tumour Cell biology immunology Apoptosis
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human(predicted:Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,GuineaPig) Flow-Cyt=2 μ g/Test,IF=1:100-500,ICC/IF=1:100-500
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	99kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human LRP
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Storage	
Product Detail	background: This gene encodes the major component of the vault complex. Vaults are multi-subunit ribonucleoprotein structures that may be involved in nucleo-cytoplasmic transport. The encoded protein may play a role in multiple cellular processes by regulating the MAP kinase, JAK/STAT and

phosphoinositide 3-kinase/Akt signaling pathways. The encoded protein also plays a role in multidrug resistance, and expression of this gene may be a prognostic marker for several types of cancer. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, May 2012]

Function:

Required for normal vault structure. Vaults are multi-subunit structures that may act as scaffolds for proteins involved in signal transduction. Vaults may also play a role in nucleo-cytoplasmic transport. Down-regulates INFG-mediated STAT1 signaling and subsequent activation of JAK. Down-regulates SRC activity and signaling through MAP kinases.

Subunit:

The vault ribonucleoprotein particle is a huge (400 A x 670 A) cage structure of 12.9 MDa. It consists of a dimer of half-vaults, with each half-vault comprising 39 identical major vault protein (MVP) chains, PARP4 and one or more vault RNAs (vRNAs). Interacts with TEP1. Interacts with PTEN and activated MAPK1. The phosphorylated protein interacts with the SH2 domains of PTPN11 and SRC. Interacts with APEX1. May interact with ZNF540.

Subcellular Location:

Cytoplasm. Nucleus, nuclear pore complex.

Tissue Specificity:

Present in most normal tissues. Higher expression observed in epithelial cells with secretory and excretory functions, as well as in cells chronically exposed to xenobiotics, such as bronchial cells and cells lining the intestine. Overexpressed in many multidrug-resistant cancer cells.

Post-translational modifications:

Phosphorylated on Tyr residues after EGF stimulation.
Dephosphorylated by PTPN11.

Similarity:

Contains 9 MVP (vault) repeats.

Database links:

[Entrez Gene: 9961](#) Human

[Entrez Gene: 78388](#) Mouse

[Entrez Gene: 64681](#) Rat

[Entrez Gene: 516456](#) Cow

[Omim: 605088](#) Human

[SwissProt: Q3SYU9](#) Cow

[SwissProt: Q14764](#) Human

[SwissProt: Q9EQK5](#) Mouse

[SwissProt: Q62667](#) Rat

[Unigene: 632177](#) Human

[Unigene: 228797](#) Mouse

[Unigene: 10028](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

LRP 或称 MVP(Major vault protein)为肺耐药相关蛋白。其耐药机制与该蛋白质参与 The nucleus-浆的运输有关。

他在正常细胞有广泛分布，对多种药物耐药的癌细胞呈过度表达，亦属多药耐药(MDR)中的一种表型，可表达于许多 Tumour 组织中，阳性者预示对化疗不敏感，主要用于各种恶性 Tumour 的研究。