

**MVP Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP6216a****Specification**

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**MVP Antibody (C-term) Blocking Peptide - Product Information**

Primary Accession [Q14764](#)  
Other Accession [NP\\_005106](#)

**MVP Antibody (C-term) Blocking Peptide - Additional Information**

**Gene ID** 9961

**Other Names**

Major vault protein, MVP, Lung resistance-related protein, MVP, LRP

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP6216a](/product/products/AP6216a) was selected from the C-term region of human MVP. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**MVP Antibody (C-term) Blocking Peptide - Protein Information**

**Name** MVP

**Synonyms** LRP

**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 IFNG-mediated STAT1 signaling and subsequent activation of JAK. Down-regulates SRC activity and signaling through MAP kinases.

**Cellular Location**

Cytoplasm. Nucleus, nuclear pore complex. Cytoplasm, perinuclear region. Note=5% found in the nuclear pore complex (PubMed:15133037). Translocates from the nucleus to the cytoplasm upon EGF treatment (PubMed:16441665)

**Tissue Location**

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

**MVP Antibody (C-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**MVP Antibody (C-term) Blocking Peptide - Images****MVP Antibody (C-term) Blocking Peptide - Background**

MVP, the major vault protein, is a lung resistance-related protein. Vaults are multi-subunit structures that may be involved in nucleo-cytoplasmic transport. This protein mediates drug resistance, perhaps via a transport process. It is widely distributed in normal tissues, and overexpressed in multidrug-resistant cancer cells. The protein overexpression is a potentially useful marker of clinical drug resistance.

**MVP Antibody (C-term) Blocking Peptide - References**

Aronica, E., et al., Epilepsia 44(9):1166-1175 (2003). Klunder, J.W., et al., Hum. Pathol. 34(2):150-155 (2003). Burger, H., et al., Clin. Cancer Res. 9(2):827-836 (2003). Yu, Z., et al., J. Biol. Chem. 277(43):40247-40252 (2002). van den Heuvel-Eibrink, M.M., et al., Leukemia 16(5):833-839 (2002).