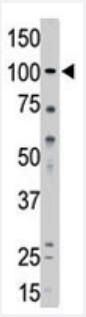
# MVP polyclonal antibody

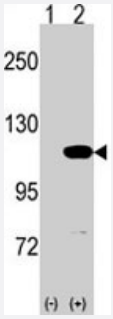
Catalog # PAB4800 Size 400 uL

## Applications



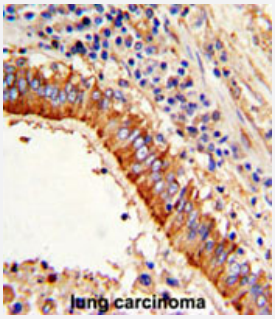

### Western Blot (Cell lysate)

The MVP polyclonal antibody (Cat # PAB4800) is used in Western blot to detect MVP in A-375 cell lysate.



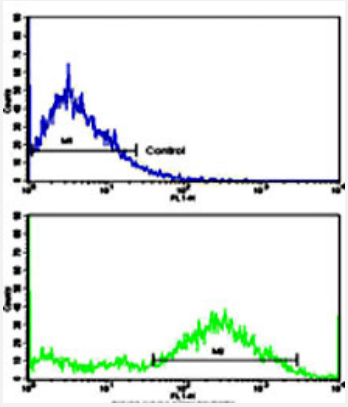

### Western Blot (Transfected lysate)

Western blot analysis of MVP (arrow) using rabbit MVP polyclonal antibody (Cat # PAB4800). 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the MVP gene (Lane 2) (Origene Technologies).




### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human lung carcinomareacted with MVP polyclonal antibody (Cat # PAB4800), which was peroxidase-conjugated to the secondary antibody, followed by AEC staining.
This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



## Flow Cytometry

Flow cytometric analysis of NCI-H292 cells using MVP polyclonal antibody (Cat # PAB4800)(bottom histogram) compared to a negative control cell (top histogram).
FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against synthetic peptide of MVP. |
| **Immunogen** | A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human MVP. |
| **Host** | Rabbit |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Purification** | Protein G purification |
| **Recommend Usage** | ELISA (1:1000)<br>Western Blot (1:100-500)<br>Immunohistochemistry (1:50-100)<br>Flow cytometry (1:10-50)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS (0.09% sodium azide) |
| **Storage Instruction** | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

## Applications

- Western Blot (Cell lysate)

  The MVP polyclonal antibody (Cat # PAB4800) is used in Western blot to detect MVP in A-375 cell lysate.

- Western Blot (Transfected lysate)

Western blot analysis of MVP (arrow) using rabbit MVP polyclonal antibody (Cat # PAB4800). 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the MVP gene (Lane 2) (Origene Technologies).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Flow cytometric analysis of NCI-H292 cells using MVP polyclonal antibody (Cat # PAB4800)(bottom histogram) compared to a negative control cell (top histogram).
FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

## Gene Info — MVP

| | |
|---|---|
| **Entrez GeneID** | 9961 |
| **Protein Accession#** | NP_005106 |
| **Gene Name** | MVP |
| **Gene Alias** | LRP, VAULT1 |
| **Gene Description** | major vault protein |
| **Omim ID** | 605088 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene encodes the major vault protein which is a lung resistance-related protein. Vaults are m ulti-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 ov erexpressed in multidrug-resistant cancer cells. The protein overexpression is a potentially useful marker of clinical drug resistance. This gene produces two transcripts by using two alternative exo n 2 sequences; however, the open reading frames are the same in both transcripts. [provided by RefSeq |
| **Other Designations** | - |

## Publication Reference

- Overexpression of the human major vault protein in gangliogliomas.

  Aronica E, Gorter JA, van Vliet EA, Spliet WG, van Veelen CW, van Rijen PC, Leenstra S, Ramkema MD, Scheffer GL, Scheper RJ, Sisodiya SM, Troost D.

  Epilepsia 2003 Sep; 44(9):1166.

  Application: ICC, IF, IHC-P, WB, Human, Human gangliogliomas

- RNA expression of breast cancer resistance protein, lung resistance-related protein, multidrug resistance-associated proteins 1 and 2, and multidrug resistance gene 1 in breast cancer: correlation with chemotherapeutic response.

  Burger H, Foekens JA, Look MP, Meijer-van Gelder ME, Klijn JG, Wiemer EA, Stoter G, Nooter K.

  Clinical Cancer Research 2003 Feb; 9(2):827.

- Expression of multidrug resistance-associated proteins in rhabdomyosarcomas before and after chemotherapy: the relationship between lung resistance-related protein (LRP) and differentiation.

  Klunder JW, Komdeur R, Van Der Graaf WT, De Bont EJ, Hoekstra HJ, Van Den Berg E, Molenaar WM.

  Human Pathology 2003 Feb; 34(2):150.

  Application: IHC-P, Human, Human rhabdomyosarcomas