

## Product datasheet

# Anti-MVP antibody [LMR5] ab3374

### 1 References

#### Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Anti-MVP antibody [LMR5]  |
| <b>Description</b>         | Rat monoclonal [LMR5] to MVP  |
| <b>Host species</b>        | Rat   |
| <b>Tested applications</b> | <b>Suitable for:</b> Flow Cyt, IHC-P, IHC-Fr  |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human   |
| <b>Immunogen</b>           | Tissue/ cell preparation; 2R120 cell line, derived by stepwise Doxorubicin exposure of the SW-1573 non-small cell lung carcinoma cell line.             |
| <b>Positive control</b>    | Positive tissue - Cell Lines: Drug-sensitive parental cell lines and their multidrugresistant derivatives. Negative control antibody: Normal rat serum. |

#### Properties

|                             |   |
|-----------------------------|---|
| <b>Form</b>                 | Liquid  |
| <b>Storage instructions</b> | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle. |
| <b>Storage buffer</b>       | Constituents: 0.3% Tris HCl, 15% Sodium chloride  |
| <b>Purity</b>               | Tissue culture supernatant  |
| <b>Clonality</b>            | Monoclonal  |
| <b>Clone number</b>         | LMR5  |
| <b>Isotype</b>              | IgG   |

#### Applications

Our [Abpromise guarantee](#) covers the use of **ab3374** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|-------|
|-------------|-----------|-------|

| Application | Abreviews | Notes  |
|-------------|-----------|--|
| Flow Cyt    |           | 1/20 - 1/30.<br>Cell permeabilization required.<br><a href="#">ab37371</a> - Rat polyclonal IgG, is suitable for use as an isotype control with this antibody. |
| IHC-P       |           | 1/20 - 1/30.   |
| IHC-Fr      |           | 1/20 - 1/30.   |

## Target

|   |   |
|---|---|
| <b>Function</b>                         | 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. |
| <b>Tissue specificity</b>               | 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.  |
| <b>Sequence similarities</b>            | Contains 9 MVP (vault) repeats.   |
| <b>Domain</b>                           | MVP 3 mediates interaction with PTEN.<br>MVP 4 mediates interaction with PARP4.   |
| <b>Post-translational modifications</b> | Phosphorylated on Tyr residues after EGF stimulation.<br>Dephosphorylated by PTPN11.  |
| <b>Cellular localization</b>            | Cytoplasm. Nucleus > nuclear pore complex. 5% found in the nuclear pore complex.<br>Translocates from the nucleus to the cytoplasm upon EGF treatment.  |

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