

## Datasheet: MCA2516PE

|                      |                           |
|----------------------|---------------------------|
| <b>Description:</b>  | MOUSE ANTI HUMAN CD87:RPE |
| <b>Specificity:</b>  | CD87                      |
| <b>Other names:</b>  | UPAR, UPA-R               |
| <b>Format:</b>       | RPE                       |
| <b>Product Type:</b> | Monoclonal Antibody       |
| <b>Clone:</b>        | VIM-5                     |
| <b>Isotype:</b>      | IgG1                      |
| <b>Quantity:</b>     | 100 TESTS                 |

## Product Details

**RRID** AB\_1055682

**Applications** This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

|                | Yes | No | Not Determined | Suggested Dilution |
|----------------|-----|----|----------------|--------------------|
| Flow Cytometry | ■   |    |                | Neat - 1/10        |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

**Target Species** Human

**Product Form** Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized

**Reconstitution** Reconstitute with 1.0ml distilled water

| Max Ex/Em | Fluorophore     | Excitation Max (nm) | Emission Max (nm) |
|-----------|-----------------|---------------------|-------------------|
|           | RPE 488nm laser | 496                 | 578               |

**Preparation** Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

**Buffer Solution** Phosphate buffered saline

**Preservative** 0.09% Sodium Azide (NaN<sub>3</sub>)  
**Stabilisers** 1% Bovine Serum Albumin  
 5% Sucrose

**Immunogen** THP-1 cells (Human acute monocytic leukaemia cells).

**External Database** **UniProt:**

Links [Q03405](#) [Related reagents](#)

**Entrez Gene:**

[5329](#) PLAUR [Related reagents](#)

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**Synonyms** MO3, UPAR

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**Fusion Partners** Spleen cells from immunised Balb/c mice were fused with cells of the X63.Ag8.653 myeloma cell line.

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**Specificity** **Mouse anti Human CD87 antibody, clone VIM-5** recognizes human CD87, also known as urokinase plasminogen activator receptor (uPAR), a 50-65 kDa single chain glycosylphosphatidylinositol (GPI) anchored glycoprotein, expressed by granulocytes, tissue macrophages, monocytes, endothelial cells, fibroblasts and mesenchymal and epithelial tumour cells.

CD87 specifically binds and activates urokinase plasminogen activator (uPA), a serine protease which converts the inactive receptor-bound proenzyme plasminogen into plasmin, triggering the proteolysis cascade of fibrinolysis. The interaction between uPAR and uPA is also known to play a role in cancer cell invasion and metastasis.

Clone VIM-5 is reported to block urokinase binding.

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**Flow Cytometry** Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul.

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**References**

1. Sillaber, C. *et al.* (1997) Molecular and functional characterization of the urokinase receptor on human mast cells. [J Biol Chem. 272 \(12\): 7824-32.](#)
2. Gadd, S.J. *et al.* (1990) M5, a phosphoinositol-linked human myelomonocytic activation-associated antigen. [Clin Exp Immunol. 80 \(2\): 252-6.](#)

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**Further Reading**

1. Mondino, A. & Blasi, F. (2004) uPA and uPAR in fibrinolysis, immunity and pathology. [Trends Immunol. 25 \(8\): 450-5.](#)

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**Storage**

Prior to reconstitution store at +4°C.  
After reconstitution store at +4°C.  
DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of reconstitution.

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**Health And Safety Information** Material Safety Datasheet documentation #10075 available at: 10075: <https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:RPE \(MCA928PE\)](#)

### Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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'M342801:190110'

**Printed on 15 Mar 2019**

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