

## Datasheet: MCA4699PE

|                      |                            |
|----------------------|----------------------------|
| <b>Description:</b>  | MOUSE ANTI HUMAN CD266:RPE |
| <b>Specificity:</b>  | CD266                      |
| <b>Other names:</b>  | TWEAK-R                    |
| <b>Format:</b>       | RPE                        |
| <b>Product Type:</b> | Monoclonal Antibody        |
| <b>Clone:</b>        | ITEM-4                     |
| <b>Isotype:</b>      | IgG2b                      |
| <b>Quantity:</b>     | 100 TESTS                  |

## Product Details

### 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               |

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.

|                                 |                                                                                                             |                            |                          |
|---------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------|
| <b>Target Species</b>           | Human                                                                                                       |                            |                          |
| <b>Species Cross Reactivity</b> | Reacts with: Mouse, Rat<br><b>N.B.</b> Antibody reactivity and working conditions may vary between species. |                            |                          |
| <b>Product Form</b>             | Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized                                             |                            |                          |
| <b>Reconstitution</b>           | Reconstitute with 1ml distilled water                                                                       |                            |                          |
| <b>Max Ex/Em</b>                | <b>Fluorophore</b>                                                                                          | <b>Excitation Max (nm)</b> | <b>Emission Max (nm)</b> |
|                                 | RPE 488nm laser                                                                                             | 496                        | 578                      |
| <b>Preparation</b>              | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant               |                            |                          |
| <b>Buffer Solution</b>          | Phosphate buffered saline                                                                                   |                            |                          |
| <b>Preservative Stabilisers</b> | 0.09% Sodium Azide (NaN <sub>3</sub> )                                                                      |                            |                          |
|                                 | 1% Bovine Serum Albumin                                                                                     |                            |                          |
|                                 | 5% Sucrose                                                                                                  |                            |                          |
| <b>Immunogen</b>                | Human CD266 transfected P815 cells.                                                                         |                            |                          |

**External Database  
Links**

**UniProt:**

[Q9NP84](#)

[Related reagents](#)

**Entrez Gene:**

[51330](#)

TNFRSF12A

[Related reagents](#)

**Synonyms**

FN14

**Fusion Partners**

Spleen cells from immunised BALB/c mice were fused with cells of the P3U1 mouse myeloma cell line.

**Specificity**

**Mouse anti Human CD266 antibody, clone ITEM-4** recognizes human Tumor necrosis factor receptor superfamily member 12A, also known as CD266, Fibroblast growth factor-inducible immediate-early response protein 14 or Tweak-receptor. CD266 is a 102 amino acid ~14 kDa type I transmembrane glycoprotein and member of the tumour necrosis factor receptor superfamily (TNFRSF12A) expressed by a variety of tissues, including the heart, lung and kidney, and at elevated levels by human brain and liver tumours.

The interaction between CD266 and its ligand CD255 (TWEAK), induces the proliferation and migration of endothelial cells and also angiogenesis, and studies have shown that CD255-induced apoptosis of some tumour cell lines is mediated by CD266 ([Nakayama \*et al.\* 2003](#)).

Mouse anti Human CD266 antibody, clone ITEM-4 is cross-reactive with mouse CD266, and also with Rat-1 fibroblastoid cells in flow cytometry.

**Flow Cytometry**

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

**References**

1. Nakayama, M. *et al.* (2003) Fibroblast growth factor-inducible 14 mediates multiple pathways of TWEAK-induced cell death. [J Immunol. 170 \(1\): 341-8.](#)
2. Nakayama, M. *et al.* (2003) Characterization of murine TWEAK and its receptor (Fn14) by monoclonal antibodies. [Biochem Biophys Res Commun. 306 \(4\): 819-25.](#)
3. Winkles, J.A. and Brown, S. (2010) Targeted Therapy of Fn14-Positive Breast Tumors Using a TWEAK-Cytotoxin Fusion Protein or Noncovalent Complex. [U.S. Army Medical Research and Materiel Command, Annual Report](#)
4. Girgenrath, M. *et al.* (2006) TWEAK, via its receptor Fn14, is a novel regulator of mesenchymal progenitor cells and skeletal muscle regeneration. [EMBO J. 25: 5826-39.](#)

**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.

**Shelf Life**

12 months from date of reconstitution.

**Health And Safety  
Information**

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

**Regulatory**

For research purposes only

## Related Products

## Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL:RPE \(MCA691PE\)](#)

## Recommended Useful Reagents

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

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

'M300774:170106'

**Printed on 05 May 2018**

---

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)