

## 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.

#### Target Species

Human

#### Species Cross Reactivity

Reacts with: Mouse, Rat

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

#### Product Form

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

#### Reconstitution

Reconstitute with 1ml 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

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	1% Bovine Serum Albumin 5% Sucrose
<b>Immunogen</b>	Human CD266 transfected P815 cells.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">Q9NP84</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">51330</a> TNFRSF12A    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	FN14
<b>RRID</b>	AB_11152763
<b>Fusion Partners</b>	Spleen cells from immunized BALB/c mice were fused with cells of the P3U1 mouse myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human CD266 antibody, clone ITEM-4</b> 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 tumors.</p> <p>The interaction between CD266 and its ligand CD255 (TWEAK), induces the proliferation and migration of endothelial cells and also angiogenesis, and CD255-induced apoptosis of some tumor cell lines is mediated by CD266 (<a href="#">Nakayama et al. 2003</a>).</p> <p>Mouse anti Human CD266 antibody, clone ITEM-4 is cross-reactive with mouse CD266, and also with Rat-1 fibroblastoid cells in flow cytometry.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Nakayama, M. <i>et al.</i> (2003) Fibroblast growth factor-inducible 14 mediates multiple pathways of TWEAK-induced cell death. <a href="#">J Immunol. 170 (1): 341-8.</a></li> <li>2. Nakayama, M. <i>et al.</i> (2003) Characterization of murine TWEAK and its receptor (Fn14) by monoclonal antibodies. <a href="#">Biochem Biophys Res Commun. 306 (4): 819-25.</a></li> <li>3. Girgenrath, M. <i>et al.</i> (2006) TWEAK, via its receptor Fn14, is a novel regulator of mesenchymal progenitor cells and skeletal muscle regeneration. <a href="#">EMBO J. 25: 5826-39.</a></li> </ol>
<b>Storage</b>	<p>Prior to reconstitution store at +4°C.</p> <p>After reconstitution store at +4°C.</p> <p>DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive</p>

and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #20487 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA4699PE">https://www.bio-rad-antibodies.com/SDS/MCA4699PE</a> 20487
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Negative Controls

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

### Recommended Useful Reagents

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

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

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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