

Datasheet: MCA4699A488

Description:	MOUSE ANTI HUMAN CD266:Alexa Fluor® 488
Specificity:	CD266
Other names:	TWEAK-R
Format:	ALEXA FLUOR® 488
Product Type:	Monoclonal Antibody
Clone:	ITEM-4
Isotype:	IgG2b
Quantity:	100 TESTS/1ml

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.

	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 Alexa Fluor 488 - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
Alexa Fluor®488	495	519

Preparation

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

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.05mg/ml
Immunogen	Human CD266 transfected P815 cells.
External Database Links	<p>UniProt: Q9NP84 Related reagents</p> <p>Entrez Gene: 51330 TNFRSF12A Related reagents</p>
Synonyms	FN14
RRID	AB_10896463
Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the P3U1 mouse myeloma cell line.
Specificity	<p>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 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 (Nakayama et al. 2003).</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>
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. Nakayama, M. <i>et al.</i> (2003) Fibroblast growth factor-inducible 14 mediates multiple pathways of TWEAK-induced cell death. J Immunol. 170 (1): 341-8. 2. Nakayama, M. <i>et al.</i> (2003) Characterization of murine TWEAK and its receptor (Fn14) by monoclonal antibodies. Biochem Biophys Res Commun. 306 (4): 819-25. 3. Girsenrath, M. <i>et al.</i> (2006) TWEAK, via its receptor Fn14, is a novel regulator of mesenchymal progenitor cells and skeletal muscle regeneration. EMBO J. 25: 5826-39.
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.

Guarantee 12 months from date of despatch

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Health And Safety Information Material Safety Datasheet documentation #10041 available at: <https://www.bio-rad-antibodies.com/SDS/MCA4699A488>
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Regulatory For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL:Alexa Fluor® 488 \(MCA691A488\)](#)

Recommended Useful Reagents

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

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

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