

Datasheet: MCA4699A647

Description:	MOUSE ANTI HUMAN CD266:Alexa Fluor® 647
Specificity:	CD266
Other names:	TWEAK-R
Format:	ALEXA FLUOR® 647
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	■			

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.		
Product Form	Purified IgG conjugated to Alexa Fluor® 647 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665
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**

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 1×10^6 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

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

Acknowledgements

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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: 10041: https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA691A647\)](#)

Recommended Useful Reagents

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

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

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