

Datasheet: MCA4712GA

Description:	RAT ANTI MOUSE TWEAK
Specificity:	TWEAK
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	MTW-1
Isotype:	IgG1
Quantity:	0.1 mg

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	■			1/5 - 1/10
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation			■	
Western Blotting			■	

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	Mouse
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.5mg/ml

External Database Links

UniProt:

[O54907](#) [Related reagents](#)

Entrez Gene:

[21944](#) Tnfsf12 [Related reagents](#)

Specificity	Rat anti Mouse TWEAK antibody, clone MTW-1 recognizes mouse TWEAK (TNF-like weak inducer of apoptosis) a type II transmembrane TNF superfamily member. TWEAK binds to the TWEAK receptor FN14 (TWEAK-R) to weakly induce apoptosis in some cell types. It is involved in the induction of inflammatory cytokines. This cytokine also promotes proliferation and migration of endothelial cells and acts as a regulator of angiogenesis. TWEAK is expressed on a broad range of adult and foetal tissues. Rat anti Mouse TWEAK antibody, clone MTW-1 blocks ligand binding <i>in vitro</i> (Nakayama et al. 2003).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	1. Kamata K <i>et al.</i> (2006) Involvement of TNF-like weak inducer of apoptosis in the pathogenesis of collagen-induced arthritis. J Immunol. 177 (9): 6433-9. 2. Kaduka, Y. <i>et al.</i> (2005) TWEAK mediates anti-tumor effect of tumor-infiltrating macrophage. Biochem Biophys Res Commun. 331 (2): 384-90. 3. Zimmerman, Z. <i>et al.</i> (2005) Effector cells derived from host CD8 memory T cells mediate rapid resistance against minor histocompatibility antigen-mismatched allogeneic marrow grafts without participation of perforin, Fas ligand, and the simultaneous inhibition of 3 tumor necrosis factor family effector pathways. Biol Blood Marrow Transplant. 11 (8): 576-86. 4. Yoriki R <i>et al.</i> (2011) Therapeutic potential of the TWEAK/Fn14 pathway in intractable gastrointestinal cancer. Exp Ther Med. 2 (1): 103-108. 5. Frese-Schaper M <i>et al.</i> (2014) Influence of natural killer cells and perforin-mediated cytotoxicity on the development of chemically induced lung cancer in A/J mice. Cancer Immunol Immunother. 63 (6): 571-80.
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. 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.
Health And Safety Information	Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10040 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®549 , DyLight®649 , DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP

Recommended Negative Controls

[RAT IgG1 NEGATIVE CONTROL \(MCA1211\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: 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	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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