

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](#)

RRID

AB_2206222

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 *in vitro* ([Nakayama et al. 2003](#)).

Flow Cytometry

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

References

1. Kamata K *et al.* (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. *et al.* (2005) TWEAK mediates anti-tumor effect of tumor-infiltrating macrophage. [Biochem Biophys Res Commun. 331 \(2\): 384-90.](#)
3. Zimmerman, Z. *et al.* (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 *et al.* (2011) Therapeutic potential of the TWEAK/Fn14 pathway in intractable gastrointestinal cancer. [Exp Ther Med. 2 \(1\): 103-108.](#)
5. Frese-Schaper M *et al.* (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.

Guarantee

18 months from date of despatch.

Health And Safety
Information

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

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

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