

Datasheet: MCA4772A647

BATCH NUMBER 160928

Description:	RAT ANTI MOUSE TREM-2:Alexa Fluor® 647		
Specificity:	TREM-2		
Format:	ALEXA FLUOR® 647		
Product Type:	Monoclonal Antibody		
Clone:	78.18		
Isotype:	lgG1		
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	Mouse		
Product Form	Purified IgG conjugate	ed to Alexa Fluor 647	- liquid
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm
	Alexa Fluor®647	650	665
Preparation Buffer Solution	Purified IgG prepared supernatant Phosphate buffered sa		raphy on Protein G
Daniel Columbia	- Hospitate bullered se	ainte	
Preservative	0.09% Sodium Azide (NaN ₃)		
Stabilisers	1% Bovine Serum Alb	umin	
Approx. Protein Concentrations	lgG concentration 0.0	5 mg/ml	

Immunogen	Mouse TREM-2 Fc fusion protein
External Database Links	UniProt: Q99NH8 Related reagents Entrez Gene: 83433 Trem2 Related reagents
Synonyms	Trem2a, Trem2b, Trem2c
Fusion Partners	Lymph node cells from immunised Fisher rats were fused with cells of the rat YB-2/0 myeloma cell line
Specificity	Rat anti Mouse TREM-2 antibody, clone 78.18 recognizes triggering receptor expressed on myeloid cells 2 (TREM-2), an activating receptor of the Ig superfamily. TREM-2 forms a receptor signaling complex with DAP12 to trigger the activation of the immune response in macrophages and dendritic cells. It may be involved in chronic inflammation and may promote the production of constitutive rather than inflammatory chemokines and cytokines. TREM-2 may also have a functional role in osteoclast formation. Stimulation of TREM-2 with Rat anti Mouse Trem-2 antibody, clone 78.18 enhances multinucleated osteoclast formation <i>in vitro</i> . Rat anti Mouse Trem-2 antibody, clone 78.18 may also be used to block TREM-2 on pre-osteoclasts to inhibit the formation of multinuclear osteoclasts and to inhibit bone resorption by mature osteoclasts.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul
References	 Humphrey, M.B. <i>et al.</i> (2006) TREM2, a DAP12-associated receptor, regulates osteoclast differentiation and function. <u>J Bone Miner Res. 21 (2): 237-45.</u> Vilalta, A. <i>et al.</i> (2021) Wild-type sTREM2 blocks Aβ aggregation and neurotoxicity, but the Alzheimer's R47H mutant increases Aβ aggregation. <u>J Biol Chem. 296:100631.</u>
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
Acknowledgements	This product is provided under an intellectual property licence from Life Technologies Corporation. The transfer of this product is contingent on the buyer using the purchased

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Health And Safety Information

Material Safety Datasheet documentation #10041 available at:

https://www.bio-rad-antibodies.com/SDS/MCA4772A647

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Regulatory For research purposes only

Related Products

Recommended Useful Reagents

HUMAN SEROBLOCK (BUF070A) HUMAN SEROBLOCK (BUF070B)

North & South Tel: +1 800 265 7376

Worldwide

Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Europe

Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50

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Email: antibody_sales_uk@bio-rad.com

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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 'M385511:210513'

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