

Datasheet: MCA1340A647T

Description:	MOUSE ANTI HUMAN CD120a:Alexa Fluor® 647
Specificity:	CD120a
Other names:	TNF-R1
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	H398
Isotype:	IgG2a
Quantity:	25 TESTS/0.25ml

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 antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human								
Species Cross Reactivity	Reacts with: Rabbit N.B. Antibody reactivity and working conditions may vary between species.								
Product Form	Purified IgG conjugated to Alexa Fluor® 647- liquid								
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>Alexa Fluor®647</td> <td>650</td> <td>665</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	Alexa Fluor®647	650	665		
Fluorophore	Excitation Max (nm)	Emission Max (nm)							
Alexa Fluor®647	650	665							
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant								
Buffer Solution	Phosphate buffered saline								
Preservative	0.09% Sodium Azide								
Stabilisers	1% Bovine Serum Albumin								
Approx. Protein Concentrations	IgG concentration 0.05 mg/ml								
Immunogen	Purified human tumour necrosis factor receptor type 1.								
External Database Links	UniProt:								

Entrez Gene:

[7132](#) TNFRSF1A [Related reagents](#)

Synonyms	TNFAR, TNFR1
-----------------	--------------

Fusion Partners	Spleen cells from immunized BALB/c mice were fused with cells of the mouse NS0 myeloma cell line.
------------------------	---

Specificity	<p>Mouse anti Human CD120a antibody, clone H398 recognizes an extracellular domain of the ~55 kDa human TNF receptor (p55, TNF-R1, CD120a). No binding occurs to the ~75 kDa TNF receptor (CD120b). CD120a is weakly expressed by monocytes and granulocytes.</p> <p>Mouse anti Human CD120a antibody, clone H398 may be used to detect high levels of TNFR1, in western blotting under reducing conditions, such as recombinant material, but it is not suitable for detection of TNFR1 in normal cells in this application.</p> <p>Mouse anti Human CD120a antibody, clone H398 inhibits the biological activity of both natural and recombinant human TNFalpha and TNFbeta (Thoma <i>et al.</i> 1990 and Dri <i>et al.</i> 1999).</p> <p>Mouse anti Human CD120a antibody, clone H398 is routinely tested in flow cytometry on human peripheral blood monocytes.</p>
--------------------	--

Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
-----------------------	---

References	<ol style="list-style-type: none">1. Thoma, B. <i>et al.</i> (1990) Identification of a 60-kD tumor necrosis factor (TNF) receptor as the major signal transducing component in TNF responses. J Exp Med. 172 (4): 1019-23.2. Menegazzi, R. <i>et al.</i> (1994) Evidence that tumor necrosis factor alpha (TNF)-induced activation of neutrophil respiratory burst on biologic surfaces is mediated by the p55 TNF receptor. Blood. 84 (1): 287-93.3. Dri, P. <i>et al.</i> (1999) Role of the 75-kDa TNF receptor in TNF-induced activation of neutrophil respiratory burst. J Immunol. 162 (1): 460-6.4. Kohrgruber, N. <i>et al.</i> (1999) Survival, maturation, and function of CD11c- and CD11c+ peripheral blood dendritic cells are differentially regulated by cytokines. J Immunol. 163 (6): 3250-9.5. Weigert, N. <i>et al.</i> (1996) Gastrin secretion from primary cultures of rabbit antral G cells: stimulation by inflammatory cytokines. Gastroenterology. 110 (1): 147-54.6. Kennedy, G. <i>et al.</i> (2010) Biochemical and vascular aspects of pediatric chronic fatigue syndrome. Arch Pediatr Adolesc Med. 164 (9): 817-23.7. Gregory, A.P. <i>et al.</i> (2012) TNF receptor 1 genetic risk mirrors outcome of anti-TNF therapy in multiple sclerosis. Nature. 488 (7412): 508-11.8. Schett, G. <i>et al.</i> (2003) TNFalpha mediates susceptibility to heat-induced apoptosis by protein phosphatase-mediated inhibition of the HSF1/hsp70 stress response. Cell Death Differ. 10: 1126-36.9. Buckley, C.D. <i>et al.</i> (2005) Identification of a phenotypically and functionally distinct population of long-lived neutrophils in a model of reverse endothelial migration. J Leukoc Biol. 79: 303-11.10. Thiery, J. <i>et al.</i> (2003) Potentiation of a tumor cell susceptibility to autologous CTL killing by restoration of wild-type p53 function. J Immunol. 170: 5919-26.11. Lin, K.H. <i>et al.</i> (2009) Mechanisms of resveratrol-induced platelet apoptosis. Cardiovasc Res. 83: 575-85.12. Baker, P.K. <i>et al.</i> (2012) Response of hairy cells to IFN-alpha involves induction of apoptosis through autocrine TNF-alpha and protection by adhesion. Blood. 100: 647-53.
-------------------	--

13. Nakamura-Lopez, Y. *et al.* (2015) RSV P-protein impairs extrinsic apoptosis pathway in a macrophage-like cell line persistently infected with respiratory syncytial virus. [Virus Res. 204: 82-7.](#)

Storage

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

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

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 purchase product solely in research, excluding contract research or any fee for service research, and the buyer must not sell or otherwise transfer this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; (c) manufacturing or quality assurance or quality control, or (d) resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad CA 92008 USA or outlicensing@thermofisher.com

Health And Safety Information

Material Safety Datasheet documentation #10041 available at: 10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA929A647\)](#)

Recommended Useful Reagents

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

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

North & South Tel: +1 800 265 7376

America 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

'M300199:170105'

Printed on 16 May 2018

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)