

Datasheet: MCA1340T

Description:	MOUSE ANTI HUMAN CD120a
Specificity:	CD120a
Other names:	TNF-R1
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	H398
Isotype:	IgG2a
Quantity:	25 µg

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	▪			
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting			▪	
Radioimmunoassays	▪			

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 - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Purified human tumour necrosis factor receptor type 1.

**External Database
Links**

UniProt:

[P19438](#) [Related reagents](#)

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

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.

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.

Mouse anti Human CD120a antibody, clone H398 inhibits the biological activity of both natural and recombinant human TNFalpha and TNFbeta ([Thoma *et al.* 1990](#) and [Dri *et al.* 1999](#)).

Mouse anti Human CD120a antibody, clone H398 is routinely tested in flow cytometry on human peripheral blood monocytes.

References

1. Thoma, B. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (1996) Gastrin secretion from primary cultures of rabbit antral G cells: stimulation by inflammatory cytokines. [Gastroenterology. 110 \(1\): 147-54.](#)
6. Kennedy, G. *et al.* (2010) Biochemical and vascular aspects of pediatric chronic fatigue syndrome. [Arch Pediatr Adolesc Med. 164 \(9\): 817-23.](#)
7. Gregory, A.P. *et al.* (2012) TNF receptor 1 genetic risk mirrors outcome of anti-TNF therapy in multiple sclerosis. [Nature. 488 \(7412\): 508-11.](#)
8. Schett, G. *et al.* (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. *et al.* (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. *et al.* (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. *et al.* (2009) Mechanisms of resveratrol-induced platelet apoptosis. [Cardiovasc Res. 83: 575-85.](#)
12. Baker, P.K. *et al.* (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. 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 #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@549 , DyLight@649 , DyLight@680 , DyLight@800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR70...)	FITC
Human Anti Mouse IgG2a (HCA037...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

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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