



RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Certificate of Analysis and Data Sheet

MOUSE ANTI HUMAN CD120a

With HRP-conjugated Secondary Antibody

Catalog No.
DS-MB-00283

Species
Human

Isotype
IgG2a

Preparation

Preparation: Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

Immunogen: Purified human tumour necrosis factor receptor type 1

Fusion Partners: Spleen cells from immunised BALB/c mice were fused with cells of the mouse NSO myeloma cell line.

Specificity

DS-MB-00283 recognizes an extracellular domain of the 55kD human TNF receptor (p55, TNF-R1, CD120a). No binding occurs to the 75kD TNF receptor (CD120b). CD120a is weakly expressed by monocytes and granulocytes.

This product 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. The antibody inhibits the biological activity of both natural and recombinant human TNFalpha and TNFbeta (1-3). Removal of sodium azide is recommended prior to use in functional assays.

This product is routinely tested in flow cytometry on human peripheral blood monocytes.

This product reacts with Rabbit, Antibody reactivity and working conditions may vary between species.

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG - liquid

Buffer Solution: Phosphate buffered saline pH7.4

Preservative & Stabilizers: 0.09% Sodium Azide (NaN₃)

Approx. Protein Concentrations: IgG concentration 1.0 mg/ml

The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.



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Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			•	
Western Blotting			•	
Immunohistology - frozen			•	
Immunohistology - paraffin			•	
Immunohistology - resin			•	
Immunoprecipitation	•			
Radioimmunoassays	•			
Flow Cytometry	•			

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

Storage

18 months from date of despatch

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

This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.

Avoid repeated freezing and thawing.

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References

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- 2) Menegazzi, R. *et al.* (1994) Evidence that tumour necrosis factor alpha (TNF)-induced activation of neutrophil respiratory burst on biologic surfaces is mediated by the p55 TNF receptor. *Blood* 84: 287-293.
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- 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.* 163:3250-3259.
- 5) Weigart, N. *et al.* (1996) Gastrin secretion from primary cultures of rabbit antral G cells; stimulation by inflammatory cytokines. *Gastroenterology.* 110: 147 - 154.

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