



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

Rat Anti-Mouse CD70:FITC

Catalog No.
DS-MB-03866

Target Species
Mouse

Isotype
IgG2b

Preparation

Synonyms: CD27L, CD27LG, TNFSF7

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Immunogen: A20 mouse B cell lymphoma cell line

Fusion Partners: Spleen cells from immunised F344/DuCrj rats were fused with cells of the mouse P3U1 myeloma cell line.

Specificity

DS-MB-03866 recognises mouse CD70, a 30-33kD type II transmembrane protein belonging to the TNF superfamily. CD70 is not expressed on resting T and B lymphocytes but expression is induced on activation. Interaction of CD70 with its ligand CD27 is reported to play an important role in T-cell co-stimulation and the regulation of T-dependant B-cell activation and antibody production.

DS-MB-03866 is reported to block the functions of CD70 and can be used to block the interactions between CD27 and CD70 (1).

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Buffer Solution: Phosphate buffered saline

Preservative Stabilizers: 0.09% Sodium Azide (NaN₃), 1% Bovine Serum Albumin

Approx. Protein Concentrations: IgG concentration 0.1 mg/ml

Applications

Options	YES	NO	Not determined	Recommended Work dilution or concentration
Functions				
Flow Cytometry (1)	•			Neat - 1/5

Note: Other applications are not tested yet. Optimal dilutions should be determined.

(1) Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity Fc receptors.

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Not for diagnostic or therapeutic use.**



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Storage

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

This product should be stored undiluted.

Storage in frost free freezers is not recommended. 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 dispatch.

References

1. Oshima, H. *et al.* (1998) Characterization of murine CD70 by molecular cloning and mAb. *Int. Immunol.*10:517 – 526.
2. Takeda, K. *et al.* (2000) CD27-Mediated Activation of Murine NK Cells. *J. Immunol.*164:1741-1745.
3. Akiba, H. *et al.* (2000) Critical Contribution of OX40 Ligand to T Helper Cell Type 2 Differentiation in Experimental Leishmaniasis. *J. Exp. Med.*191:375-380.
4. Akiba, H. *et al.* (1999) CD28-Independent Costimulation of T Cells by OX40 Ligand and CD70 on Activated B Cells. *J. Immunol.*162:7058 – 7066.

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