



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 Rat CD28

With HRP-conjugated Secondary Antibody

Catalog No.

DS-MB-00556

Target Species

Rat

Isotype

IgG1

Preparation

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

Specificity

DS-MB-00556 recognizes the rat cell surface antigen CD28, a type I transmembrane glycoprotein, expressed by the majority of T lymphocytes and a subset of NK cells.

CD28 is an essential costimulatory receptor for T cell activation and a modulator of T-cell cytokine production. Ligands of CD28 include CD80 (B7-1), CD86 (B7-2) and P13-kinase.

DS-MB-00556 has been identified as a highly effective co-stimulator of T cell proliferation and IL-2 secretion by resting T cells (1).

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

Formulation

Product Form Purified IgG - liquid

Buffer Solution Phosphate buffered saline pH7.4

Preservative Stabilisers 0.09% Sodium Azide

Approx. Protein Concentrations IgG concentration 1.0mg/ml

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. 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.

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



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

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	•			
Flow Cytometry	•			1/100
Immunofluorescence			•	
Neutralization			•	

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

Recommended Reading

1. Tacke, M. *et al.* (1995) Cellular distribution and costimulatory function of rat CD28. *J. Immunol.* 154: 5121-5127.
2. Tacke, M. *et al.* (1997) CD28-mediated induction of proliferation in resting T cells in vitro and in vivo without engagement of the T cell receptor: evidence for functionally distinct forms of CD28. *Eur. J. Immunol.* 27: 239-247.

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