



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rat Anti Human CD28:Low Endotoxin

With HRP-conjugated Secondary Antibody

Catalog No.
DS-MB-00567

Target Species
Human

Isotype
IgG2b

Preparation

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

Immunogen: Human peripheral blood T-cells

Fusion Partners: Spleen cells from an immunized DA rat were fused with cells of the Y3/Ag 1.2.3 rat myeloma cell line.

Specificity

DS-MB-00567 recognises the human CD28 cell surface antigen, a 44kD glycoprotein expressed by T lymphocytes. The antibody enhances the MLR response.

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

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG - liquid

Buffer Solution: Phosphate buffered saline pH7.4

Approx. Protein Concentrations: IgG concentration 1.0 mg/ml

Preservative Stabilizers: None present

Endotoxin Level: <0.01 EU/ug

Storage

Store at -20°C only.

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.



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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			•	
Flow Cytometry(*)	•			1/25 - 1/50
Immunofluorescence			•	
Functional Assay	•			Stimulation of MLR response

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.
(*)Use 10ul of the suggested working dilution to label 10^6 cells or 100ul whole blood.

Secondary Antibody Applications

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

Reference

1. Reiter, C. (1989) Cluster Report: CD28 in Leucocyte Typing IV: White Cell Differentiation Antigens. Edited by Knapp, W., Dorken, B., Gilks, W.R., Rieber, E.P., Schmidt, R.E., Stein, H. and von dem Borne, A.E.G.Kr. Oxford University Press. pp 352-353.
2. Galea-Lauri, J. *et al.* (1999) Expression of a variant of CD28 on a subpopulation of human NK cells: Implications for B7-mediated stimulation of NK cells. J. Immunol. 163: 62-70.

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