

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-Human CD28

With HRP-conjugated Secondary Antibody

Catalog No.Target SpeciesIsotypeDS-MB-03646HumanIgG2b

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.

Formulation

Product Form: Purified IgG - liquid **Product Type:** Monoclonal Antibody **Buffer Solution:** Phosphate buffered saline **Preservative Stabilizers:** 0.09% Sodium Azide

Approx. Protein Concentrations: IgG concentration 1.0 mg/ml

Specificity

DS-MB-03646 recognizes the human CD28 cell surface antigen, a 44kD glycoprotein expressed by a subset of T lymphocytes. The antibody enhances the MLR response.

It has been reported that this clone also recognizes an epitope of CD28 expressed by NK cells, which is not recognized by clones of 9.3 or CD28.2.(2)

Applications

| Options Functions | YES | NO | Not determined | Recommended Work dilution or concentration |
|-----------------------------|-----|----|----------------|--|
| Flow Cytometry (1) | • | | | 1/25 - 1/50 |
| Immunohistology - Frozen | • | | | |
| Western Blotting | | | • | |

Note: Other applications have not been tested. Optimal dilutions should be determined. (1) Use 10ul of the suggested working dilution to label 10⁶ cells or 100ul whole blood. Method sheets are available on request.

The products are furnished for LABORATORY RESEARCH USE ONLY.

Not for diagnostic or therapeutic use.



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Secondary Antibody Applications

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

Storage

Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. 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 dispatch.

References

- 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.
- 3. Gabdoulkhakova, A. *et al.* (2007) High rate of mutation reporter gene inactivation during human T cell proliferation. Immunogenetics. 59: 135-43.
- 4. Pridgeon, C. *et al.* (2011) Regulation of IL-17 in chronic inflammation in the human lung. Clin Sci (Lond). 120: 515-24.