



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Mouse Anti-CD83

Catalog No.
MD-11-0117

Species
Human

Isotype:
IgG2b, kappa

Description: Monoclonal Antibody to CD83

Specificity: The molecular weight (Mr) of the recognized antigen is 40-45kDa. The CD83 antigen is a 186-amino acid single-chain glycoprotein. This molecule is a member of the immunoglobulin superfamily and is composed of any extracellular V-type Ig-like single domain, a transmembrane region, and a short, 40-amino-acid cytoplasmic tail. This antibody has been assigned to the CD83 cluster of differentiation during the 5th International Workshop on Human Leucocyte Differentiation Antigens in Boston, U.S.A., in 1993 (4).

Host Animal: Mouse. Hybridization of NS1 myeloma cells with spleen cells from BALB/c mice.

Source: Ascites

Immunogen: COS cells transfected with the HB15 cDNA

Format: Purified, Lyophilized, Reconstitute with 1ml of distilled water.

Purification: Ion exchange or affinity chromatography

Concentration: Not applicable

Affinity Constant: Not determined

Buffer: Lyophilized from PBS containing 1mg/ml BSA

Preservative: None

Storage: Store lyophilized product at 2-8°C. After reconstitution, aliquot and store at –20°C. Avoid multiple freeze/thaw cycles. The addition of 0.1% (w/v) sodium azide is recommended for storage of the reconstituted form for up to one month at 2-8°C.

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



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Applications: Research studies by fluorescent microscopy or flow cytometry, after dendritic cells enrichment by culture, enumeration and/or sorting of CD83+ cells. Studies of human dendritic cell subpopulations in tissues by immunohistochemistry. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.

References: The references listed below are for research purposes only.

1. Zhou, L., et al., (1992), "A novel cell-surface molecule expressed by human interdigitating reticulum cells, Langerhans cells, and activated lymphocytes is a new member of the Ig superfamily", *Journal of Immunol.*, **149**, (2), 735-742.
2. Zhou, L., et al., (1995), "Human blood dendritic cells selectively express CD83, a member of the immunoglobulin superfamily", *J. Immunol.*, **154**, (8), 3821-3835,
3. Zhou, L., et al., (1995), "A distinct pattern of cytokine gene expression by human CD83+ blood dendritic cells", *Blood*, 86, 9m 3295-3301.
4. Engel, P., et al., "CD83 Workshop report", 1995, in *Leucocyte Typing V, White Cell Differentiation Antigens*, Schlossman, S.F., et al., Eds. Oxford University Press, pp. 693-695.

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