9853 Pacific Heights Blvd.
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30-1481: Anti-CD83 Monoclonal Antibody (Clone:HB15e)

Clonality :	Monoclonal
Clone Name :	HB15e
Application :	FACS
Reactivity :	Human
Gene :	CD83
Gene ID :	9308
Uniprot ID :	Q01151
Format :	Purified
Alternative Name :	CD83
Isotype :	Mouse IgG1
Immunogen Information :	Human CD83-transfected Cos cells

Description

CD83 is a 40-45 kDa heavily glycosylated type I cell surface glycoprotein of immunoglobulin family. It is expressed on the surface of mature dendritic cells, Langerhans cells in the skin, and interdigitating reticulum cells in the lymphoid tissues. Low expression of CD83 has been reported in activated T and B cells. Cytoplasmic expression of CD83 can be detected also in monocytes and macrophages. CD83 is involved in modulation of antigen presentation. Soluble CD83 has immunoregulatory functions, it is able to down-regulate dendritic cell maturation and stimulation of T cells. In the developing immune system, release of soluble CD83 from dendritic cells upon stimulation by gram-positive or gram-negative bacteria has anti-allergic effect. Herpes simplex virus, on the other hand, causes CD83 degradation in mature dendritic cells.

Product Info

Amount :	0.1 mg
Purification :	Purified by protein-A affinity chromatography followed by size-exclusion chromatography.
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Flow Cytometry *Positive control:*peripheral blood-derived dendritic cells
Immunohistochemistry (frozen sections) *Application note:*acetone fixation

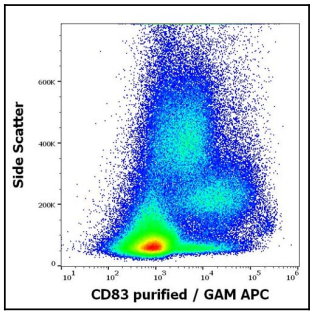


Figure 1: Flow cytometry surface staining pattern of human interferon alpha stimulated peripheral whole blood stained using anti-human CD83 (HB15e) purified antibody (concentration in sample 2 µg/ml, GAM APC).

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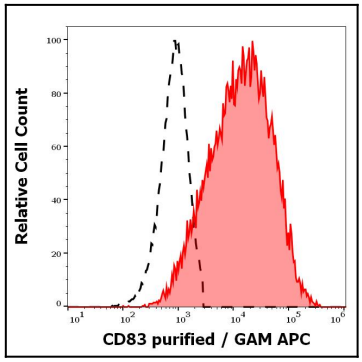


Figure 2: Separation of human monocytes (red-filled) from CD83 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human interferon alpha stimulated peripheral whole blood stained using anti-human CD83 (HB15e) purified antibody (concentration in sample 2 µg/ml, GAM APC).

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