



11-677-C025

Monoclonal Antibody to CD83 Purified Antibody (0.025 mg)

Clone:	HB15e
Isotype:	Mouse IgG1
Specificity:	The mouse monoclonal antibody HB15e recognizes CD83, a 40-45 kDa type I glycoprotein expressed on mature dendritic cells. HLDA IV.; WS Code T 85
Regulatory Status:	RUO
Immunogen:	Human CD83-transfected Cos cells
Species Reactivity:	Human, Non-Human Primates
Application:	Flow Cytometry Positive control: peripheral blood-derived dendritic cells Immunohistochemistry (frozen sections) Application note: acetone fixation
Purity:	> 95% (by SDS-PAGE)
Purification:	Purified by protein-A affinity chromatography
Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability:	Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	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.

For laboratory research only, not for drug, diagnostic or other use.

**Antibodies****References:**

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- *And many other.

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