



11-677-C100

## Monoclonal Antibody to CD83 Purified Antibody (0.1 mg)

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