

Mouse Anti-CD83 [HB15a]: MC0269, MC0269RTU7

Intended Use: For Research Use Only

Description: CD83 is a 40-45kD glycoprotein expressed by peripheral blood dendritic cells. Peripheral lymphocytes can be induced to express very low levels of CD83 after culture in agents such as Con A or PHA. In immunohistology, CD83 is shown to be expressed strongly by interfollicular interdigitating reticulum cells and more weakly by cells within germinal centres. CD83 is also expressed by Langerhan's cells in the skin. The CD83 antigen is a 186-amino-acid single-chain glycoprotein and this molecule is a member of the immunoglobulin superfamily that is composed of an extracellular V-type Ig-like single domain, a transmembrane region, and a short, 40-amino-acid cytoplasmic tail. CD83 antigen undergoes extensive post-translational glycosylation, since the determined Mr is twice the predicted size of the core protein. However, CD83+ cells have a unique cell surface immuno-phenotype that does not correlate with that of T cells, B cells, NK cells, or cells of the myelomonocytic lineage. CD83+ cells coexpress the highest levels of MHC class II molecules, when compared with other leucocyte lineages. They also co-express T cell markers (CD2, CD5), B cell markers (CD40, CD78), myeloid cell markers (CD13, CD33, CD36), cytokine receptors as well as other cell surface molecules. Diseases associated with CD83 dysfunction include plague and Rift Valley Fever.

Specifications:

Clone: HB15a
 Source: Mouse
 Isotype: IgG2b/k
 Reactivity: Human
 Localization: Membrane
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
 Storage: Store at 2°- 8°C
 Applications: IHC, Flow Cyt., IF, IP, WB
 Package:

Description	Catalog No.	Size
CD83 Concentrated	MC0269	1 ml
CD83 Prediluted	MC0269RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Human breast cancer
 Concentrated Dilution: 50-500
 Pretreatment: Citrate pH6.0 or EDTA pH8.0 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human skin stained with anti-CD83 using DAB

References:

1. Characterization of dendritic cells in lip and oral cavity squamous cell carcinoma. Costa NL1, J Oral Pathol Med. Jul;45(6):418-24, 2016.
2. The clinicopathologic significance of the expression of HLA-G in oral squamous cell carcinoma. Gonçalves AS1, et al. Oral Surg Oral Med Oral Pathol Oral Radiol. 2014 Mar;117(3):361-8, 2014.

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