

CD83 (Michel-19): sc-53678

BACKGROUND

CD83 is a heavily glycosylated membrane protein of the immunoglobulin (Ig) superfamily that is expressed in mature dendritic cells, Langerhans cells and interdigitating reticulum cells within lymphoid tissues. Structurally, CD83 resembles other Ig superfamily members, which have an extracellular V-type Ig-like domain, a single transmembrane domain and a 40 residue cytoplasmic tail. CD83 expression is used as a marker for mature, antigen presenting dendritic cells that are capable of generating tumor-specific T cell immunity, a phenotype with implications as an anti-cancer vaccine. CD83-IgG₁(fc) chimera studies indicate that CD83 is a sialic acid-binding, Ig-like Lectin (Siglec) adhesion molecule that is involved in cell adhesion/signaling by hosting dendritic cell interactions with monocytes and CD8⁺ T cells.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Cd83 (mouse) mapping to 13 A4.

SOURCE

CD83 (Michel-19) is a rat monoclonal antibody raised against recombinant CD83 of mouse origin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

Each vial contains 200 µg IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

CD83 (Michel-19) is recommended for detection of CD83 of mouse origin by flow cytometry (1 µg per 1 x 10⁶ cells).

Suitable for use as control antibody for CD83 siRNA (m): sc-42809, CD83 shRNA Plasmid (m): sc-42809-SH and CD83 shRNA (m) Lentiviral Particles: sc-42809-V.

Molecular Weight of CD83 precursor: 32 kDa.

Molecular Weight of glycosylated CD83: 45-60 kDa.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.