

Mouse Monoclonal Antibody to DCAL-1

Biomaterial – Antibody

Biomaterial Description

Researchers in Prof. Edward Clark's laboratory have developed a monoclonal antibody to DCAL-1 (clone UW50) that has been successfully used in flow cytometry analyses. The anti-DCAL-1 monoclonal antibody (mouse IgM isotype) was purified from hybridoma cell culture. C-type lectin molecules play a crucial role in pathogen recognition and antigen uptake by immature dendritic cells and mediate the immune response of mature dendritic cells. DCAL-1 is a transmembrane, C-type lectin-like protein involved in the regulation of dendritic cells during the immune response. DCAL-1 is expressed in dendritic cells and B cells but not in T cells and monocytes.

Applications

- Research Tool
- Flow Cytometry
- Western Blot

Advantages

- Recognizes human DCAL-1
- Incubation of anti-DCAL-1 monoclonal antibody with immature dendritic cells results in a partially mature dendritic cell phenotype that may have an important immunoregulatory role

Distributor Information

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References

1. Ryan, E. J., Marshall, A. J., Magaletti, D., Floyd, H., Draves, K. E., Olson, N. E., Clark, E. A.(2002) , <https://journals.aai.org/jimmunol/article/169/10/5638/35589/Dendritic-Cell-Associated-Lectin-1-A-Novel>, <https://academic.oup.com/jimmunol>, 169, 5638-5648
2. Ryan, E. J., Magaletti, D., Draves, K. E., Clark, E. A.(2008) , <https://pmc.ncbi.nlm.nih.gov/articles/PMC2728069/>, <https://www.sciencedirect.com/journal/human-immunology>, 70, 1-5

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