Anti-Human CD371/CLEC12A-173Yb

Catalog: 3173007B
Clone: 50C1
Package Size: 100 tests
Isotype: IgG2a
Storage: Store product at 4°C. Do not freeze.
Reactivity: Human

Formulation: Antibody stabilizer with 0.05% Sodium Azide

Technical Information

Validation: Each lot of conjugated antibody is quality control tested by CyTOF® analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended Usage: The suggested use is 1 µl for up to 3 X 10^6 live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.

Description

The 50C1 monoclonal antibody binds to human CD371, a 30 kD type II transmembrane protein with extracellular C-type lectin domains, belonging to the C-type lectin family. CD371 is also known as Clec12A (C-type lectin domain family 12 member A), C-type lectin-like molecule 1 (CLL-1), myeloid inhibitory C-type lectin-like receptor (MICL) and dendritic cell-associated lectin 2 (DCAL-2). It is expressed on monocytes, macrophages, dendritic cells, granulocytes and some NK cell subsets. CD371 is structurally similar to the β-glucan receptor (Dectin-1) and LOX-1 with high N-glycosylation. CD371 can be present in five distinct isoforms due to alternative splicing. CD371 downstream signaling can induce dendritic cell maturation and the production of IL-12. There is evidence that CD371 serves as a negative regulator of activated leukocytes recruited to sites of inflammation.

References


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Human PBMCs stained with 173Yb-anti-CD371(CLEC12A)(50C1) and 161Dy-anti-CD14(M5E2). Total viable cells are displayed in the analysis.