

# Anti-Human CD371/CLEC12A-173Yb

Catalog: 3173007B

Package Size: 100 tests

Storage: Store product at 4°C. Do not freeze.

Reactivity: Human

Clone: 50C1

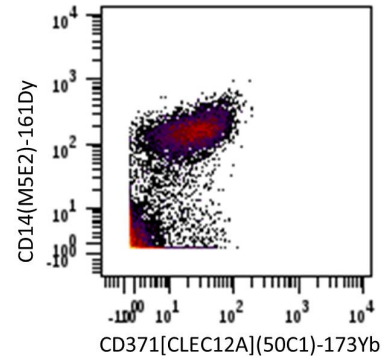
Isotype: IgG2a

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<sup>6</sup> live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



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

## 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

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. **Highly Multiparametric Analysis by Mass Cytometry.** *J Immunol Methods* 361 (1-2):1-20, 2010.

### For technical support visit [fluidigm.com/support](http://fluidigm.com/support)

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