Anti-Human CD163-145Nd

Catalog: 3145010B
Package Size: 100 tests
Storage: Store product at 4°C. Do not freeze.
Reactivity: Rhesus,

Clone: GHI/61
Isotype: IgG1
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.

CD163 is a 130 kDa membrane protein with a short cytoplasmic tail, a single transmembrane segment, and a large ectodomain consisting of nine scavenger receptor class B domains. CD163 expression is restricted to the monocytic-macrophage lineage with high expression in red pulp macrophages, bone marrow macrophages, liver macrophages (Kupffer cells) and lung macrophages. Low or absent CD163 expression is seen in other monocyte-derived cells, such as dendritic cells, Langerhans cells, and white pulp macrophages in the spleen. CD163 is a high-affinity receptor of human haptoglobin (Hp)-hemoglobin (Hb) complexes. The removal of Hb and the generation of heme metabolites result in a localized anti-inflammatory response.

It has been reported (Maniecki et al., 2011) that calcium inhibits the binding of clone GHI/61 to CD163. Use calcium-free staining buffer such as Maxpar Cell Staining Buffer (201068). Also, detection of CD163 positive monocytes is highly variable depending on use of different anticoagulants during cellular collection and preparation. Heparin has the highest inhibitory effect on clone GHI/61 and should be avoided.

References


For technical support visit fluidigm.com/support
North America +1 650 266 6100 | Toll-free: +1 866 358 4354 in the US | support.northamerica@fluidigm.com  Europe +33 1 60 92 42 40 | support.europe@fluidigm.com
China (excluding Hong Kong) +86 21 3325 8368 | techsupportchina@fluidigm.com  Japan +81 3 3662 2150 | techsupportapan@fluidigm.com
All other Asian countries +1 650 266 6100 | techsupportasia@fluidigm.com  Central and South America +1 650 266 6100 | techsupportlatam@fluidigm.com

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