Anti-Human CD45 (HI30)-196Pt

Catalog number, package size: 3196001B, 100 tests  
3196001C, 25 tests

Clone: HI30  
Other Names: LCA, T200  
Isotype: Mouse IgG1, κ

Reactivity: Human, Chimpanzee  
Tag: 196Pt

Formulation: Antibody stabilizer with 0.05% sodium azide  
Storage: Store at 2–8 °C. Do not freeze.

Application: CyTOF® suspension mass cytometry

Technical Information

Description: CD45, also known as leukocyte common antigen (LCA) and T200, is a type I transmembrane glycoprotein. It is expressed on the plasma membrane of all hematopoietic cells except mature red blood cells, platelets, and some plasma cells. Its intracellular domain is a tyrosine phosphatase that serves to regulate signal transduction in most hematopoietic cells.

Application: The platinum (Pt)-labeled antibody is designed and formulated for the application of suspension mass cytometry using the Fluidigm CyTOF suspension systems on healthy human PBMC.

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

Recommended use: Use 1 µL for up to 3 million live cells in 100 µL staining volume. We recommend titrating the antibody for optimal performance for each of the desired applications. Centrifuge the stock antibody at 12,000 × g for 5 min to sediment antibody aggregates. Fixation is typically used in intracellular staining protocols or in barcoding with the Cell-ID™ 20-Plex Pd Barcoding Kit (201060). However, fixing before antibody staining can affect epitope structure and antibody binding, with the impact varying on the type and concentration of fixative and the protocol used. It is therefore important to perform a small, preliminary antibody staining experiment, with and without fixation, using noncritical samples.

NOTE This product is not compatible with Cell-ID Cisplatin and monoisotopic Cell-ID Cisplatin reagents of the same isotope. We strongly recommend that you titrate Cell-ID Intercalator-Ir for use with this product. You can use the Cadmium and Platinum Purity Matrices (FLDM -00038) or the Maxpar® Panel Designer tool to determine the metal purity or anticipated signal overlap, respectively.

Applicable Protocols

Before using this product, refer to the instructions in the Maxpar Cell Surface Staining with Fresh Fix Protocol (400276).

References


Safety

Use standard laboratory safety protocols. Read and understand the safety data sheets (SDSs) before handling chemicals. To obtain SDSs, go to fluidigm.com and search for SDS-00025.

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