Mouse Anti-Human CD45

Overview

Clone F10-89-4
Isotype Mouse IgG2aκ
Immunogen Purified T cells from human lymph nodes
Specificity Human/Horse CD45; Mr 180-220 kDa
Alternate Name(s) LCA, T200, Ly5
Workshop IV N819

Description

CD45, also known as the leukocyte common antigen (LCA), exists as four different isoforms (180, 190, 205, 220 kDa) that are generated by alternative splicing of three exons. LCA is found on all cells of hematopoietic origin, except erythrocytes and platelets. CD45 expression is required for T cell and B cell antigen receptor-mediated activation.

Applications

FC – Quality tested 1,5,9-11
IHC-FS – Reported in literature 1-3
ICC – Reported in literature 4,5
IP – Reported in literature 6,7
WB – Reported in literature 7,8

Working Dilutions

Flow Cytometry

- Purified (UNLB) antibody ≤ 1 μg/10⁶ cells
- FITC, BIOT, PE, PE/TXRD, APC, SPRD, CY5, PE/CY5.5, PE/CY7, and AF700 conjugates 10 μL/10⁶ cells

For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL

Other Applications

Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.
Handling and Storage

- The purified (UNLB) antibody is supplied as 0.1 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added. Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 25 tests in 0.25 mL or 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycocerythrin (PE) and allophycocyanin (APC) conjugates are supplied as 25 tests in 0.25 mL or 100 tests in 1.0 mL of PBS/NaNO₃ and a stabilizing agent. Store at 2-8°C. Do not freeze!
- The Spectral Red® (SPRD), R-phycocerythrin-Cyanine 5.5 (PE/CY5.5), R-phycocerythrin-Cyanine 7 (PE/CY7) and R-phycocerythrin-Texas Red® (PE/TXRD) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. Do not freeze!
- The Cyanine 5 (CY5) and Alexa Fluor® 700 (AF700) conjugates are supplied as 100 tests in 1.0 mL of PBS/NaN₃. Store at 2-8°C. Protect fluorochrome conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific (M)SDS.

References


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Spectral Red® is a PE/CY5 tandem conjugate.
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