Monoclonal Antibody to CD10
Phycoerythrin (PE) conjugated (25 tests)

Clone: LT10
Isotype: Mouse IgG1
Specificity: The antibody LT10 reacts with CD10 antigen (CALLA - Common acute lymphatic leukemia antigen), a 100 kDa type II integral membrane protein.
Regulatory Status: RUO
Immunogen: mouse NALM-6 leukemia pre-B cell line (tissue/cell preparation)
Species Reactivity: Human, Other not tested
Preparation: The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage Buffer: The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability: Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage: The reagent is designed for Flow Cytometry analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (0.5 ml) is sufficient for 25 tests.
Expiration: See vial label
Lot Number: See vial label
Background: CD10 (neutral endopeptidase #8211; NEP, common acute lymphocytic leukemia antigen #8211; CALLA, membrane metallo-endopeptidase #8211; MME, enkephalinase) is a 100-kDa cell surface zinc metalloprotease cleaving peptide bonds on the N-terminus of hydrophobic amino acids and inactivating multiple physiologically active peptides. CD10 is expressed on various normal cell types, including lymphoid precursor cells, germinal center B lymphocytes, and some epithelial cells, and its expression level serves as a marker for diagnostics of many carcinomas. CD10 is also a differentiation antigen for early B-lymphoid progenitors in the B-cell differentiation pathway and has a key role in regulation of growth, differentiation and signal transduction of many cellular systems.
References:


*Leukocyte Typing VII., Mason D. et al. (Eds.), Oxford University Press (2002).