CD10 (W8E7)

DESCRIPTION

Specificity
The CD10 antibody (Anti-CALLA) recognizes a human common acute lymphoblastic leukemia antigen (CALLA), with a molecular weight of 100 kilodaltons (kDa). The CD10 antigen is identical to human membrane–associated neutral endopeptidase (NEP; EC 3.3.24.11), also known as enkephalinase.

Antigen distribution
The CD10 antigen is found on lymphocytes from acute B-lymphoid leukemia samples. The antigen is also present on a wide variety of normal and neoplastic cell types including renal epithelium, fibroblasts, granulocytes, and some lymphoma, melanoma, and glioma cell lines.

Clone
The CD10 antibody, clone W8E7, is derived from the hybridization of P3-X63-Ag8.653 mouse myeloma cells with spleen cells isolated from BALB/c mice immunized with blast cells from a patient with non-T acute lymphoblastic leukemia (ALL).

Composition
The CD10 antibody is composed of mouse IgG2a heavy chains and kappa light chains.

Product configuration
The following is supplied in phosphate buffered saline (PBS) containing a stabilizer and a preservative.

CAUTION
Do not use ammonium chloride for lysing red cells after antibody staining with CD10, clone W8E7. When stained samples are lysed with ammonium chloride, the antibody-antigen complex becomes unstable and can result in loss of CD10 staining.

Purity
FITC: ≤5% free fluorophore at bottling, as measured by size-exclusion chromatography (SEC)

HANDLING AND STORAGE
Store vials at 2°C–8°C. Conjugated forms should not be frozen. Protect from exposure to light. Each reagent is stable until the expiration date shown on the bottle label when stored as directed.

Analyte Specific Reagent. Analytical and performance characteristics are not established.
WARNING

All biological specimens and materials coming in contact with them are considered biohazards. Handle as if capable of transmitting infection\(^5,6\) and dispose of with proper precautions in accordance with federal, state, and local regulations. Never pipette by mouth. Wear suitable protective clothing, eyewear, and gloves.

CHARACTERIZATION

To ensure consistently high-quality reagents, each lot of antibody is tested for conformance with characteristics of a standard reagent.

WARRANTY

Unless otherwise indicated in any applicable BD general conditions of sale for non-US customers, the following warranty applies to the purchase of these products.

THE PRODUCTS SOLD HERUNDER ARE WARRANTED ONLY TO CONFORM TO THE QUANTITY AND CONTENTS STATED ON THE LABEL OR IN THE PRODUCT LABELING AT THE TIME OF DELIVERY TO THE CUSTOMER. BD DISCLAIMS HEREBY ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE AND NONINFRINGEMENT. BD’S SOLE LIABILITY IS LIMITED TO EITHER REPLACEMENT OF THE PRODUCTS OR REFUND OF THE PURCHASE PRICE. BD IS NOT LIABLE FOR PROPERTY DAMAGE OR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING PERSONAL INJURY, OR ECONOMIC LOSS, CAUSED BY THE PRODUCT.

REFERENCES


PATENTS AND TRADEMARKS

BD, BD Logo and all other trademarks are property of Becton, Dickinson and Company. © 2014 BD