**CD26 (L272)**

**DESCRIPTION**

**Specificity**

The CD26 antibody recognizes a 120-kilodalton (kDa) antigen that is identical to the enzyme dipeptidyl peptidase (DPP), a serine protease.\(^1\) It is associated with the binding of the TAT transactivating protein of the human immunodeficiency virus (HIV).\(^2\) CD26 and CD45 act in a co-stimulatory fashion on T lymphocytes.\(^3\).

**Antigen distribution**

The CD26 antigen is present on peripheral blood T lymphocytes, the CD26 antigen is upregulated on phytohemagglutinin (PHA) and concanavalin A (Con A)–stimulated peripheral blood mononuclear cells (PBMCs).\(^1\) The CD26 antigen is found on approximately 50% of CD4 cells and approximately 30% of CD8 cells.\(^4\) It is also found on Epstein-Barr virus (EBV)–transformed B-cell lines, hairy cell leukemia, and macrophages.\(^1\) Absolute numbers of CD4^+^CD26^+^ and CD8^+^CD26^+^ cells are reported to be lower in HIV-positive individuals.\(^5,6\) The CD26^−^CD4^+^ cell appears to be a reservoir for HIV.\(^5\) CD26^bright^CD4^+^ lymphocytes are CD25^+^ and CD45RO^+^ memory T lymphocytes.\(^5,7\).

**Clone**

The CD26 antibody, clone L272, is derived from the hybridization of Sp2/0 mouse myeloma cells with spleen cells isolated from BALB/c mice immunized with E1αPGF/JY cells.

**Composition**

The CD26 antibody is composed of mouse IgG\(_2\alpha\) heavy chains and kappa light chains.

**Product configuration**

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

<table>
<thead>
<tr>
<th>Form</th>
<th>Number of tests</th>
<th>Volume per test (µL)(^a)</th>
<th>Amount provided (µg)</th>
<th>Total volume (mL)</th>
<th>Concentration (µg/mL)</th>
<th>Stabilizer</th>
<th>Preservative</th>
</tr>
</thead>
<tbody>
<tr>
<td>FITC</td>
<td>50</td>
<td>20</td>
<td>50</td>
<td>1.0</td>
<td>50</td>
<td>Gelatin</td>
<td>0.1% Sodium azide</td>
</tr>
<tr>
<td>PE</td>
<td>50</td>
<td>20</td>
<td>50</td>
<td>1.0</td>
<td>50</td>
<td>Gelatin</td>
<td>0.1% Sodium azide</td>
</tr>
</tbody>
</table>

\(^a\) Volume required to stain 10^6^ cells.

**Purity**

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

PE: ≤20% free fluorophore at bottling, as measured by SEC

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

WARNING

All biological specimens and materials coming in contact with them are considered biohazards. Handle as if capable of transmitting infection 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 HEREUNDER 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. © 2015 BD