CD138 (MI15)

FORMS

<table>
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<th>Form</th>
<th>Catalog number</th>
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<td>V500-C</td>
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DESCRIPTION

Specificity

The CD138 antibody recognizes syndecan-1, a member of the syndecan family of transmembrane heparin sulfate proteoglycans whose main functions are to modulate ligand-dependent activation of primary signaling receptors at the cell surface. Syndecan-1 exhibits molecular polymorphism; its core protein is a single-chain molecule of 70 to 75 kilodaltons (kDa), and its isoforms vary in molecular weight up to approximately 400 kDa.

Antigen distribution

The CD138 antigen specifically identifies human plasma cells. It strongly reacts with all multiple myeloma cell lines, with malignant plasma cells on Reed-Sternberg cells of classic Hodgkin disease (HD), both membrane and cytoplasmic, and on tumor cells of primary effusion lymphoma (PEL). The CD138 antigen appears during activation and differentiation of B cells and is specific for the terminally differentiated B cell. B-CLL cells are positive for syndecan-1. The CD138 antigen is consistently not expressed on putative tumor cells of the nodular lymphocyte predomiance (LP) subtype of HD, and not detected in B-cell malignancies of subsets of non-Hodgkin lymphoma (NHL), chronic lymphocytic leukemia, and hairy-cell leukemia. Mantle cell lymphoma is negative for syndecan-1, and there is no reaction with peripheral blood, bone marrow, or tonsil cells.

Clone

The CD138 antibody, clone MI15, is derived from the hybridization of SP2/0 mouse myeloma cells with spleen cells isolated from BALB/c mice immunized with human cell line 8266.

Composition

The CD138 antibody is composed of mouse IgG1 heavy chains and kappa light chains.

Product configuration

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

Analyte Specific Reagent. Analytical and performance characteristics are not established.
CAUTION Prolonged exposure of cells to paraformaldehyde can lead to increased autofluorescence in the violet channels. For overnight storage of stained cells, wash and resuspend in buffer without paraformaldehyde after 1 hour of fixation.

Purity

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

PE, PerCP-Cy5.5, APC, V500-C: ≤20% free fluorophore at bottling, as measured by 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.

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

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REFERENCES


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a. Volume required to stain 10⁶ cells.

b. BD Horizon™ V500-C


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