



Monoclonal Antibodies to **CD138**

Technical Data Sheet

Reagent Category

Monoclonal primary antibody to CD138

Antibody Formats Supplied

□ 0.2 ml of anti CD138, Concentrate

PRODUCT# IMI13952E (Concentrate)

SOURCE: Cultured supernatant

IMMUNOGLOBULIN ISOTYPE: IgG1

CLONE: 5F7

REACTIVITY

CD138 is a transmembrane heparan sulfate proteoglycan macromolecule also known as syndecan-1. The CD138 molecule interacts with extracellular matrix proteins, cell surface molecules, and other soluble proteins. It is expressed on normal and malignant human plasma cells and on basolateral surfaces of endothelial cells but not on virgin/naive B cells, memory B cells, T cells, or monocytes. In the adhesion of activated T cells, this antibody is suitable for use on routinely fixed paraffin embedded and frozen sections, this antibody can also be used for staining cytosmears, cytocentrifuge preparations. This antibody is compatible with formalin fixative as well as most commonly used histological fixatives.

POSITIVE CONTROL TISSUE: Small intestine/Tonsil

STAINING PATTERN: Membrane staining

Antibody FORMAT, DILUTION and INCUBATION

This affinity-purified monoclonal CD138 antibody is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.05% sodium azide.

□ 0.2 ml of Concentrate, for paraffin section staining: Dilute 1:30 for 1 hour to over-night incubation.

This antibody best stains when formalin fixed paraffin embedded sections are gently retrieved with Uni-Trieve. CD antigens are heat labile and are destroyed by extreme heat. Avoid retrieving CD markers with microwave, steamer and pressure cookers.

For Background-Free and easy retrieval, Innovex Uni-Trieve (60°-70°C) universal retrieval solution is highly recommended. To retrieve with Uni-Trieve: Warm up a water bath to 60°-70°C and fill a slide holding container with Uni-Trieve solution. Place slides in a slide rack and immerse slides in a vessel or a coplin jar containing Uni-Trieve solution, bring the Uni-Trieve solution and slides to 60°-70°C and let slides incubate at 60°-70°C for 30 minutes. Rinse slides with 2 quick changes of water; No cooling period is required. Proceed with immunostaining.

The above dilutions and incubation times were derived by the use of Innovex STAT-Q and HISTO-STAT staining systems. For less sensitive detection systems these dilution factors may vary and they should be determined by the end user for specific detection system employed.

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APPLICATIONS

This antibody is intended for use in immunolocalization of CD138 by a variety of immunoassays such as Immunocytochemistry, fluorescent labeling, ELISA, Immunoblotting and dot blotting. In immunocytochemistry, this antibody can be used in staining routinely fixed paraffin embedded or frozen histological sections for the purpose of qualitative localization of CD138. This antibody can also be used for quantitative flow cytometric assays in the indirect method.

SPECIES REACTIVITY

This antibody reactivity with human has been substantiated; other species reactivity may be characterized by the end user.

STORAGE CONDITIONS

Store in refrigerator at 2-8°C through expiration date noted on the vial.

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