



Monoclonal Antibody to Anti-Human CD56, Neural Cell Adhesion molecule (NCAM)

Technical Data Sheet

Reagent Category

Monoclonal primary antibody to
CD 56 (NCAM)

Antibody Formats Supplied

- 5ml of anti CD 56 (NCAM), Ready-To-Use
- 0.2 ml of anti CD56 (NCAM), Concentrate

PRODUCT# IMH16661E (Ready-To-Use)

PRODUCT# IMH16652E (Concentrate)

SOURCE: Mouse ascites

IMMUNOGEN: Membrane preparation of a small cell lung carcinoma specimen

IMMUNOGLOBULIN ISOTYPE: IgG1

Clone: 1B6

REACTIVITY

This antibody reacts with human cell adhesion molecule (NCAM), a sialoglycoprotein that mediate intracellular adhesion by homophilic binding to NCAM or another molecule. This antibody recognizes two isoforms of the protein, 145 kD and 184kD. The CD56 antigen is expressed moderately on granular lymphocytes of the peripheral blood and all on natural killer (NK). CD56 antibody is non-reactive with B cells, monocytes, granulocytes cells in histopathological studies, this antibody can be used for histological typing of human lung tumors. Suitable for use on routinely fixed paraffin embedded or frozen sections or cell smears.

STAINING PATTERN: Membrane staining

POSITIVE CONTROL TISSUE: Neuroblastoma/ Brain/Small Intestine

Antibody FORMATS, DILUTIONS and INCUBATION TIME

This affinity purified monoclonal mouse anti CD56 (NCAM) antibody is provided in phosphate buffered saline pH 7.2 containing bovine serum albumin (BSA) and 0.05% sodium azide. This antibody is available in:

5 ml of pre-diluted, Ready-To-Use, Do not dilute. Incubate for 20 minutes when staining with Innovex staining system and rinsing with Innovex Enhancing Buffer or when heat retrieving. When staining with other detection systems and washing with PBS or tris buffer incubate for 30 minutes.

0.2 ml of concentrate, for paraffin section staining: Dilute 1:50 for 30-minute incubation. The dilution factors are considerably higher for 1 hour to over-night incubation. The dilution factor for frozen section staining and other applications are also considerably higher and it must be determined by the end user for the application and the secondary staining reagents employed. **The above dilutions and incubation times were derived by the use of Innovex STAT-Q detection system. 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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SPECIAL USAGE GUIDANCE

No pre-treatment is required, however, the use of Enhancing wash buffers (Item#: IMI00396E for Immuno-Peroxidase staining and Item#: IMI00596E for Immuno-Alkaline-phosphatase) is highly recommended. The use of signal-Enhancing wash buffers produce great staining even for weak or overfixed tissues in a single try and without repetitive procedures. They also further allow the user to cut primary incubation time and/or increase antibody dilution.

APPLICATIONS

This antibody is intended for use in immunolocalization of CD56 antigen in human tissue by a variety of immunoassays such as Immunochemistry, ELISA, Immunoblotting, dot blotting and for use in functional assays in adhesion research. In immunochemistry, this antibody can be used in staining routinely fixed paraffin embedded or frozen histological sections for the purpose of qualitative localization of CD56 antigen. 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.

IMPORTANT NOTE:

The interpretation of test results is the sole responsibility of the end user.

FOR IN VITRO RESEARCH USE ONLY