



Monoclonal Antibody to Neurofilament

Technical Data Sheet

Reagent Category

Monoclonal primary antibody to
Neurofilament

Antibody Formats Supplied

- 7 ml of anti Neurofilament antibody, Ready-To-Use
- 0.2 ml of anti, Neurofilament antibody, Concentrate

PRODUCT# IMI27761E (Ready-To-Use)

PRODUCT# IMI27752E (Concentrate)

SOURCE: culture supernatant

IMMUNOGEN: Human Neurofilament peptide

IMMUNOGLOBULIN ISOTYPE: IgG1

CLONE: NR4

POSITIVE CONTROL TISSUE: Brain tissue

REACTIVITY

This antibody recognizes the Neurofilaments of 68 kD molecular weight. Neurofilaments are the main constituents of the structures of neuron dendrites and axons. Neurofilaments are present in neurons sympathetic ganglion nerves and peripheral nerves. Positive immunostaining has been observed in a variety of malignancies such as gangliogliomas, medulloblastomas and neuroblastomas as well as endocrine tumors. This antibody is suitable for use on routinely fixed paraffin embedded and frozen sections. This antibody is compatible with formalin fixative as well as most commonly used histological fixatives.

Antibody FORMATS, DILUTIONS and INCUBATIONS

Affinity purified monoclonal anti neurofilaments antibody is provided in phosphate buffered saline pH 7.4 containing bovine serum albumin (BSA) and 0.1% sodium azide.

7 ml of pre-diluted, Ready-to-Use, **Do not dilute.** Incubate for 10-30 minutes.

0.2 ml of concentrate; for 10-minute incubation, dilute 1:40; for 30-minute incubation dilute 1:60. For longer incubation time the working titer should be determined by the end user.

The above dilutions and incubation times were derived by the use of Innovex STAT-Q and HISTO-STAT detection systems and the use of Enhancing wash buffer (see special usage guidance below). For less sensitive detection systems these dilution factors may vary and they should be determined by the end user for specific detection system employed.

SPECIAL USAGE GUIDANCE

No pre-treatment is necessary, however, the use of Innovex signal-Enhancing Wash Buffers (Item#: IMI00396E for Immuno-Peroxidase staining and Item#: IMI00596E for Immuno-Alkaline-phosphatase) in place of PBS or Tris buffer for the rinsing steps in between the incubation steps is highly recommended. The use of enhancing buffer eliminates the need for enzyme digestion pre treatment, heat application (retrieval procedure), long incubation of primaries and repetitive procedures.

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APPLICATIONS

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

SPECIES REACTIVITY

This antibody reactivity with human tissues 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