



Product Information

MONOCLONAL ANTI-NEUROFILAMENT 160 CLONE NN18

Mouse Ascites Fluid

Product No. **N 5264**

Monoclonal Anti-Neurofilament 160 (mouse IgG1 iso-type) is produced by the fusion mouse myeloma cells and splenocytes from an immunized mouse. Neurofilaments purified from pig spinal cord were used as the immunogen. The isotype is determined using Sigma ImmunoType™ Kit (Product Code ISO-1) and by a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents (Product Code ISO-2). The product is provided as ascites fluid containing 0.1% sodium azide as a preservative.

Specificity

Monoclonal Anti-Neurofilament 160 localizes the neurofilament of molecular weight 160,000 by indirect immunofluorescent labeling on formalin-fixed paraffin-embedded tissue sections. Good labeling may also be obtained on human, chicken, pig, rat, guinea pig, rabbit, or mouse tissue. It does not cross react with other intermediate filament proteins. In an immunoblot technique the antibody specifically stains neurofilaments of molecular weight 160,000.

Description

Intermediate filaments (IFs) with characteristic 10 nm diameter are a distinct class of heterogenous protein subunits apparent by both immunological and biochemical criteria. IFs differ significantly from other cytoskeletal elements of the cell, namely microtubules and microfilaments, and are components of most eukaryotic cells. The neurofilaments are one of the five major groups of intermediate filaments and are found predominantly in cells or tissues of neuronal origin.

Uses

Monoclonal Anti-Neurofilament 160 may be used for the localization of the neurofilament of molecular weight equal to 160,000 in cultured cells or tissue preparations.

Titer: At least 1:40

The antibody titer was determined by indirect immunofluorescent labeling of formalin-fixed, paraffin-embedded tissue sections using FITC goat anti-mouse IgG as the secondary antibody.

In order to obtain best results, it is recommended that each individual user should determine their working dilutions by titration assay.

Storage

For continuous use, store at 2-8 °C for up to one month. For extended storage, the solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. Storage in "frost-free" freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.

Due to the sodium azide content a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling practices.

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