



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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## Mouse anti Neurofilament 70 kD

Catalogue number: **MUB1303P**

Clone	2F11
Isotype	IgG1
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse
Species reactivity	Human
Application	Immunoblotting Immunohistochemistry (frozen) Immunohistochemistry (paraffin)

## Distributors

For Purchasing Information, please contact your local distributor

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### Background

Like most other intermediate filament proteins (IFPs), the expression of the different neuronal IFPs is both tissue-specific and developmentally regulated. The neurofilament (NF) triplet proteins (70, 160, and 200 kDa) occur in both the central and peripheral nervous system and are normally restricted to neurons. The 70 kDa NF-protein can self-assemble into a filamentous structure, whereas the 160 kDa and 200 kDa NF-proteins require the presence of the 70 kDa NF-protein to co-assemble. All three NF proteins can be detected by immunohistochemical methods at day 9 or 10 after gestation in the Mouse embryo. Although IFPs of the neurofilament type are normally restricted to neurons, there are reports on their expression in non-neuronal cells as well. For example, in heart conduction myocytes NF proteins are expressed together with desmin. In tumor pathology ganglioneuroblastomas and some of the other neuroblastomas are strongly positive with the neurofilament antisera. Also, some neuro-endocrine malignancies may show NF positivity. In cell cultures of neural tissues the neurofilament antibodies can monitor in vitro differentiation.

### Source

2F11 is a Mouse monoclonal IgG1, k antibody derived by fusion of Mouse myeloma cells with spleen cells from a Mouse immunized with a Human neurofilament preparation

### Product

Each vial contains 100 ul 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

### Applications

2F11 is suitable for immunoblotting and immunohistochemistry on frozen and paraffin-embedded tissues. Optimal antibody dilution should be determined by titration; recommended range is 1:25 – 1:200 for immunohistochemistry with avidin-biotinylated Horseradish peroxidase complex (ABC) as detection reagent, and 1:100 – 1:1000 for immunoblotting applications.

#### **Specificity**

2F11 reacts exclusively with the phosphorylated isoform of the 70 kD neurofilament protein.

#### **Storage**

Store at 4°C, or in small aliquots at -20°C.

#### **References**

1. Kluck, P., van Muijen, G. N., van der Kamp, A. W., Tibboel, D., van Hoorn, W. A., Warnaar, S. O., and Molenaar, J. C. (1984). Hirschsprung's disease studied with monoclonal antineurofilament antibodies on tissue sections, *Lancet* 1, 652-4.
2. van Muijen, G. N., Ruiters, D. J., van Leeuwen, C., Prins, F. A., Rietsema, K., and Warnaar, S. O. (1984). Cytokeratin and neurofilament in lung carcinomas, *Am J Pathol* 116, 363-9.
3. Breckenridge, L. J., Sommer, I. U., and Blackshaw, S. E. (1997). Developmentally regulated markers in the postnatal cervical spinal cord of the opossum *Monodelphis domestica*, *Brain Res Dev Brain Res* 103, 47-57.

#### **Caution**

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water. This datasheet is as accurate as reasonably achievable, but Nordic-MUBio accepts no liability for any inaccuracies or omissions in this information.