



Product Information Sheet

Monoclonal Anti-Neurofilament 68, NF68

Catalogue No. MA1070-M

Immunogen

Pig spinal cord.

Lot No. 08A12

Purification

Clone: NF-68

Purified by the goat anti-mouse IgG affinity chromatography.

Ig type: mouse IgG1

Formulation

Each vial contains 1mg/ml Magnetic Bead in PBS, pH 7.2, 0.05mg NaN_3 .

Size: 200 μ l

Storage

Specificity

Store at 4°C for frequent use.

Human, pig, rat.

No cross reactivity with other proteins.

Description

This Antagene antibody is immobilized by the covalent reaction of hydrazinonicotinamide-modified antibody with formylbenzamide-modified beads. It is useful for immunoprecipitation.

Recommended application

Immunoprecipitation(IP)

BACKGROUND

Neurofilaments are composed of 3 neuron-specific proteins with apparent molecular masses of 68 kD (NFL), 125 kD (NFM) and 200 kD (NFH) on SDS-gel electrophoresis. And they have a role in the maturation of regenerating myelinated axons. Neurofilament 68 (NF68), also called Neurofilament Protein, Light Chain (NFL). It is one of the most abundant cytoskeletal components of the neuron. Mutations in this gene were reported as a cause for autosomal dominant Charcot-Marie-Tooth type 2E (CMT2E) linked to chromosome 8p21. NFL was identified repeatedly in both screenings and found to interact with Myotubularin-related 2 gene, MTMR2 in both Schwann cells and neurons.

REFERENCE

1. Zhu, Q.; Couillard-Despres, S.; Julien, J.-P. : Delayed maturation of regenerating myelinated axons in mice lacking neurofilaments. *Exp. Neurol.* 148: 299-316, 1997.
2. Jordanova, A.; De Jonghe, P.; Boerkoel, C. F.; Takashima, H.; De Vriendt, E.; Ceuterick, C.; Martin, J.-J.; Butler, I. J.; Mancias, P.; Papasozomenos, S. C.; Terespolsky, D.; Potocki, L.; Brown, C. W.; Shy, M.; Rita, D. A.; Tournev, I.; Kremensky, I.; Lupski, J. R.; Timmerman, V. : Mutations in the neurofilament light chain gene (NEFL) cause early onset severe Charcot-Marie-Tooth disease. *Brain* 126: 590-597, 2003.
3. Previtali, S. C.; Zerega, B.; Sherman, D. L.; Brophy, P. J.; Dina, G.; King, R. H. M.; Salih, M. M.; Feltri, L.; Quattrini, A.; Ravazzolo, R.; Wrabetz, L.; Monaco, A. P.; Bolino, A. : Myotubularin-related 2 protein phosphatase and neurofilament light chain protein, both mutated in CMT neuropathies, interact in peripheral nerve. *Hum. Molec. Genet.* 12: 1713-1723, 2003.

For Research Use Only not for diagnostic and clinical use

Contact: Antagene, Inc. | Tel: 1 (866) 964-2589 | Fax: 1 (888) 225-1868 | Email: Info@antageneinc.com