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siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
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Technically Speaking

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Purified Mouse Monoclonal to Neurofilament Heavy Protein

CLX299AP

Size: 0.1 mg

Clone: NF-05

Isotype: Mouse IgG_1

Specificity: The antibody NF-05 recognizes a nonphosphorylated epitope of neurofilament heavy protein (NF-H), a 210 kDa intracellular structural protein of Intermediate Filament Proteins family. NF-H is mainly expressed in the central and peripheral nervous system and reproductive system and is biochemically very stable.

Immunogen: Pig brain neurofilament protein-enriched fraction after depolymerization of microtubules

Species Reactivity: Human, Porcine, Rat

Application: Western Blotting
Recommended dilution: 1 µg/ml
Positive control:Lysate of brain homogenate.
Immunohistochemistry (frozen sections)
ELISA
Capture antibody

Purity: > 95% (by SDS-PAGE)

Purification: Purified from ascites by precipitation methods and size-exclusion chromatography.

Concentration: 1 mg/ml

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Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability: Store at 2-8^{o}C. Do not freez

Background: Neurofilaments (NFs) are a type of intermediate filaments (IF) expressed almost exclusively in neuronal cells, and in those cells most prominently in large axons. NFs in most vertebrates are composed of three different polypeptide chains with different molecular weights – neurofilament heavy protein (NF-H), medium (NF-M) and light protein (NF-L), which share sequence and structural similarity in a coiled-coil core domain, but differ in the length and sequence of their N-termini and more dramatically of their C-termini which in the case of NF-M and NF-H form the flexible extensions that link NFs to each other and to other elements in the cytoplasm. The protein segment on the C-terminal side of the human NF-H rod is uniquely long (more than 600 amino acids) compared to other IF proteins and is highly charged (> 24 % Glu, > 25 % Lys), rich in proline (> 12 %) and improverished in cysteine, methionine and aromatic amino acids. Its most remarkable feature is a repetitive sequence that covers more than half its lenght and includes the sekvence motif Lys-Ser-Pro (KSP) greater than 40 times. Plasma neurofilament heavy chain level has been proposed as a marker of axonal injury and clinical use of its degeneration and loss has been suggested as a biomarker of several neurodegenerative diseases.

References:

*Cote F, Collard JF, Julien JP: Progressive neuronopathy in transgenic mice expressing the human neurofilament heavy gene: a mouse model of amyotrophic lateral sclerosis. Cell. 1993 Apr 9;73(1):35-46. *Ohara O, Gahara Y, Miyake T, Teraoka H, Kitamura T: Neurofilament deficiency in quail caused by nonsense mutation in neurofilament-L gene. J Cell Biol. 1993 Apr;121(2):387-95. *Brown RH Jr.: Amyotrophic lateral sclerosis: recent insights from genetics and transgenic mice. Cell. 1995 Mar 10;80(5):687-92. *Wild EJ, Petzold A, Keir G, Tabrizi SJ: Plasma neurofilament heavy chain levels in Huntington's disease. Neurosci Lett. 2007 May 7;417(3):231-3. *Miyazawa I, Nakashima I, Petzold A, Fujihara K, Sato S, Itoyama Y: High CSF neurofilament heavy chain levels in neuromyelitis optica. Neurology. 2007 Mar 13;68(11):865-7. *Petzold A, Keir G, Warren J, Fox N, Rossor MN: A systematic review and meta-analysis of CSF neurofilament protein levels as biomarkers in dementia. Neurodegener Dis. 2007;4(2-3):185-94. Porchet R, Probst A, Draberova E, Draber P, Riederer IM, Riederer BM: Differential subcellular localization of phosphorylated neurofilament and tau proteins in degenerating neurons of the human entorhinal cortex. Neuroreport. 2003 May 23;14(7):929-33.

Laboratory Reagent For Research Use Only

MW 02/10/17