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P.O. Box 3286 - Logan, Utah 84323, U.S.A. - Tel. (800) 729-8350 - Tel. (435) 755-9848 - Fax (435) 755-0015 - www.scytek.com

## Neurofilament; Clone 2F11 (Ready-To-Use)

Availability/Contents:		<u>Item #</u> A00020-0002 A00020-0007	Volume 2 ml 7 ml	
Description:				
Species:		Mouse		
Immunog	jen:	BALB/C mice were immunized with purified neurofilaments from human brain.		
Clone:		2F11		
Isotype:		IgG1, Kappa		
Format:	Format: This antibody has be embedded as well a:		n pretitered and quality controlled to work on formalin-fixed paraffin- acetone fixed cryostat tissue sections. No further titration is required.	
Specificit	y:	This antibody stains neurons (axons) of the central and peripheral nervous system. It is useful for the identification of tumors with neuronal differentiation viz. Neuroblastomas, Ganglioneuromas, Pheochromocytomas and Esthesioblastomas. The antibody cross-reacts with the NF-equivalent protein in mouse, rabbit, rat and swine. The antibody can also be utilized to discriminate between Hirschsprung's disease and allied enteric nervous system malformations.		
Background:	ind:	Neurofilaments (NFs) are the type IV family of intermediate filaments which are structural elements of the neuronal cytoskeleton in an interconnection with actin microfilaments, microtubules and other intermediate filaments.		
		NFs are the most abur protofibrils which are th monomeric proteins. T specific which are expl NF-L protein can self-a 200 kDa NF-H proteins Alpha-internexin is also forms homopolymers a heteropolymeric neuro specific nature of neur excellent targets for ar	adant fibrillar components of the axon, are built from three intertwined hemselves composed of two tetrameric protofilament complexes of he neurofilament triplet proteins (68/70,160, and 200 kDa) are neuron ressed in both the central and peripheral nervous system. The 68/70 kDa assemble into a filamentous structure; however, the 160 kDa NF-M and s require the presence of the 68-/70 kDa NF-L protein to co-assemble). o a neurofilament which is approximately 66 kDa in size. Alpha-internexin and may well form a separate filament system from the other three filaments. Alpha-internexin is one of the earliest expressed filaments in t in developing neuroblasts, but also in the CNS of adults. The neuron- ofilaments and their wide cytoplasmic distribution present themselves tibody markers to identify neuron in the target tissue.	
Species I Positive ( Cellular L Titer/ Wo Microbiol	Reactivity: Control: Localization: rking Dilution: ogical State:	Human, Mouse, Rat, F Brain. Cytoplasm. No further dilution is re This product is not stee	Rabbit, Cat. Does not react with Dog. Others not tested. equired. rile.	
	[∕ <b>-</b> 8° C		(	

Storage: 2° C

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Ordering Information and Current Pricing at www.scytek.com

### Instructions For Use A00020-IFU-RUO

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**Uses/Limitations:** 

Not to be taken internally. For Research Use Only. This product is intended for qualitative immunohistochemistry with normal and neoplastic formalin-fixed, paraffin-embedded tissue sections, to be viewed by light microscopy. Do not use if reagent becomes cloudy. Do not use past expiration date. Non-Sterile.



Human brain stained with Ultra-Tek HRP and DAB Chromogen.

#### Procedure:

- 1. **Tissue Section Pretreatment (Highly Recommended):** Staining of formalin fixed, paraffin embedded tissue sections is significantly enhanced by pretreatment with Citrate Plus (ScyTek catalog# CPL500).
- Primary Antibody Incubation Time: We suggest an incubation period of 30 minutes at room temperature. However, depending upon the fixation conditions and the staining system employed, optimal incubation should be determined by the user.
- 3. **Visualization:** For maximum staining intensity we recommend the "UltraTek HRP Anti-Polyvalent Lab Pack" (ScyTek catalog# UHP125, see IFU for instructions) combined with the "DAB Chromogen/Substrate Bulk Pack (High Contrast)" (ScyTek catalog# ACV500, see IFU for instructions).

 Precautions:
 Contains Sodium Azide as a preservative (0.09% w/v).

 Do not pipette by mouth.
 Avoid contact of reagents and specimens with skin and mucous membranes.

 Avoid microbial contamination of reagents or increased nonspecific staining may occur.
 This product contains no hazardous material at a reportable concentration according to U.S. 29 CFR 1910.1200, OSHA Hazardous Communication Standard and EC Directive 91/155/EC.

#### **References:**

- 1. Schlaepfer WW. Neurofilaments: structure, metabolism and implications in disease. J Neuropathol Exp Neurol 1987;46:117-29.
- 2. Herrmann H, Aebi U. Intermediate filaments and their associates: multi-talented structural elements specifying cytoarchitecture and cytodynamics. Curr Opin Cell Biol 2000;12:79-90.
- 3. Breckenridge LJ, Sommer IU, Blackshaw SE. Developmentally regulated markers in the postnatal cervical spinal cord of the opossum *Monodelphis domestica*. Dev Brain Res 1997;103:47-57.
- 4. Gatter KC, Dunnill MS, van Muijen GNP, Mason DY. Human lung tumours may co-express different classes of intermediate filaments. J Clin Pathol 1986;39:950-4.

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