Datasheet for ABIN361355

anti-NEFM antibody (C-Term)

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Overview

Quantity:	100 µL
Target:	NEFM
Binding Specificity:	C-Term
Reactivity:	Rat
Host:	Chicken
Clonality:	Polyclonal
Conjugate:	This NEFM antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Preparation containing the extreme C-terminus expressed in and purified from E. Coli
Specificity:	Specific for the ~145k Neurofilament M protein.
Cross-Reactivity:	Chicken, Cow (Bovine), Human, Mouse (Murine), Rat (Rattus)
Purification:	Total IgY fraction

Target Details

Target:	NEFM
Alternative Name:	NEFM (NEFM Products)
Background:	Neurofilaments are the 10nm or intermediate filament proteins found specifically in neurons, and are composed predominantly of three major proteins called NF-L, NF-M and NF-H (1). NF-

Target Details

	M is the neurofilament middle or medium molecular weight polypeptide and runs on SDS-PAGE gels at 145-160 kDa, with some variability across species boundaries. Antibodies to NF-M are useful for identifying neuronal cells and their processes in tissue sections and in tissue culture. NF-M antibodies can also be useful to visualize neurofilament accumulations seen in many neurological diseases, such as Amyotrophic Lateral Sclerosis (Lou Gehrig's disease) and Alzheimer's disease (2). Anti-Neurofilament M Western blot of rat cortex lysate showing specific immunolableing of the ~ 145k NF-M protein.
Molecular Weight:	'145 kDa
Gene ID:	24588
UniProt:	P12839
Pathways:	Brown Fat Cell Differentiation

Application Details

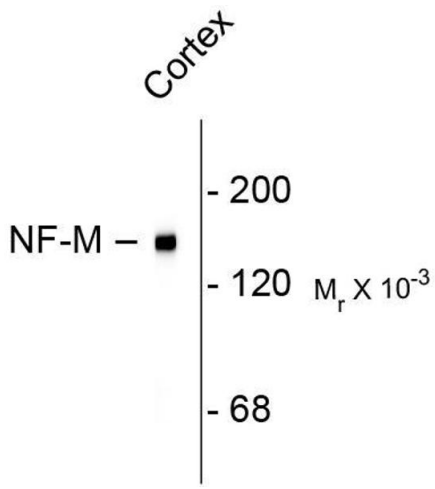
Application Notes:	Recommended Dilution: WB: 1:5,000 IF: 1:1000 Quality Control: Western blots performed on each lot.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	total IgY fraction in PBS + 10 mM Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

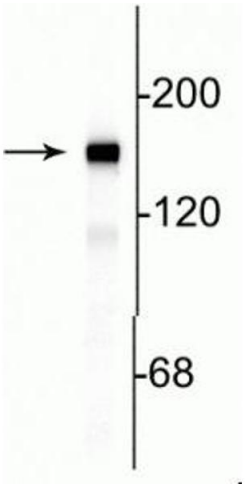
Publications

Product cited in:	Su, Gu, Wang, Wang: "Lidocaine attenuates proinflammatory cytokine production induced by extracellular adenosine triphosphate in cultured rat microglia." in: **Anesthesia and analgesia**, Vol. 111, Issue 3, pp. 768-74, (2010) (PubMed).



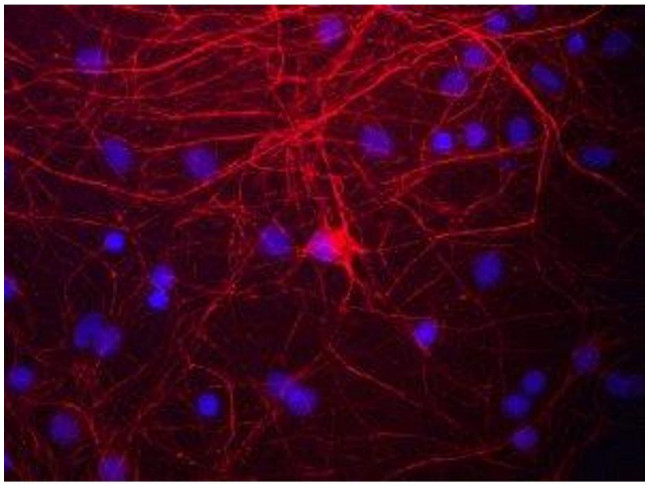
Western Blotting

Image 1. Western blots of rat cortex lysate showing specific immunolableing of the ~ 145k NF-M protein.



Western Blotting

Image 2. Western blot of rat cortical lysate showing specific immunolabeling of the ~145 kDa NF-M protein.



Immunostaining

Image 3. Immunostaining of cultured rat neurons and glia showing labeling of NF-M in red.