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PRODUCT DATASHEET

Anti-Neuronal nuclei antigen (NeuN/FOX3) Antibody (1B7)

Product Details

Available Variants	100 µg (SKU:M-377-100)
Conjugate	Unconjugated
Clone	1B7
Host Species	Mouse
Format	IgG
Physical State	Lyophilized
Buffer	Lyophilized from PBS buffer pH 7.2-7.6 with 0.1% trehalose, and sodium azide
Production Notes	Protein G purified
Applications	ICC, IF, IHC, WB
Dilution Ranges	WB: 1:1000 IHC: 1:1000-1:2000 ICC: 1:1000-1:2000
Species Reactivity	Human, Mouse, Rat
Immunogen	The antibody has been made against a recombinant construct, based on the N-terminal (100 amino acids) of human FOX3 expressed in and purified from E Coli.
Specificity	Species cross-reactivity includes human, rat, and mouse.
Storage	Spin vial briefly before opening. Reconstitute with 100 µL sterile-filtered, ultrapure water to achieve a 1 mg/mL concentration. Centrifuge to remove any insoluble material. Store lyophilized antibody at 2-8°C After reconstitution of lyophilized antibody, aliquot and store at -20°C for a higher stability. Avoid freeze-thaw cycles. Store at 4°C for up to one month for short term storage and frequent use.

UniProt ID	A6NFN3
Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.

Product Images

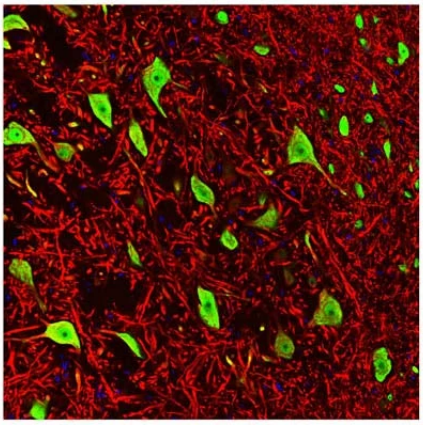
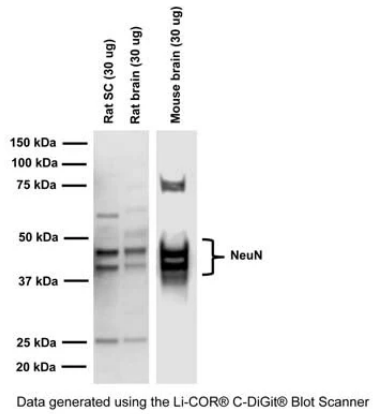


Image of a rat brain stem section by **Immunofluorescence and Immunohistochemistry**. The section was stained with M-377-50, Neuronal nuclei antigen [NeuN] /RNA binding protein fox-1 homolog 3 [FOX3], (NeuN/FOX3), Clone 1B7, Mouse mAb, (green), and co-stained with product C-1382-50, Microtubule associated protein (MAP2), Chicken pAb, (red), and DAPI staining of nuclear DNA (blue). Product M-377-100 selectively stains nuclei and the proximal cytoplasm of neuronal cells, while product C-1382-50 labels dendrites and overlaps with Fox3/NeuN staining in the perikarya of neurons. Method: following transcardial perfusion with 4% paraformaldehyde, the brain was post fixed for 24 hours, cut to 45 um sections, and free-floating sections were stained with the two antibodies.



Analysis by **western blot** of NeuN/FOX3 expression in rodent tissue homogenates with M-377-100, Neuronal nuclei antigen [NeuN] /RNA binding protein fox-1 homolog 3 [FOX3], (NeuN/FOX3), Clone 1B7, Mouse mAb, with doublet bands at approx 46kDa and 48kDa; additional uncharacterized bands are observed. Method: SDS-PAGE: denatured, reduced; Transfer: Tris-Glycine buffer; Membrane: PVDF (0.45 µm); Blocking: 5% skim milk in TBST, 1 hour at RT; Primary antibody: overnight at 2-8°C (1/2000); Secondary antibody: anti-mouse-HRP (1/10000) 2 hours at RT; Detection: Chemiluminiscence.

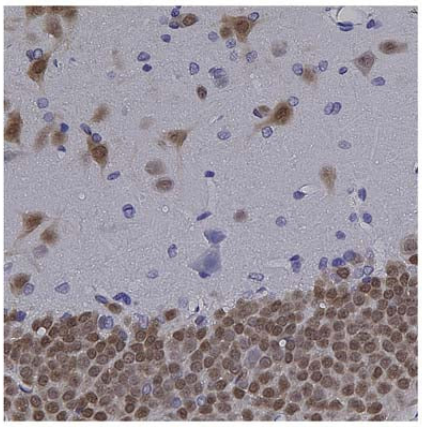


Image of formalin-fixed paraffin-embedded rat hippocampus section by **Immunohistochemistry**. The sections was stained with M-377-100, Neuronal nuclei antigen [NeuN] /RNA binding protein fox-1 homolog 3 [FOX3], (NeuN/FOX3), Clone 1B7, Mouse mAb, (brown, 1:2,000) and counter stained with Hematoxylin (blue).