

Human RBFOX3/NeuN Antibody

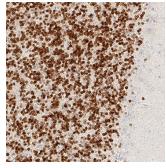
Recombinant Monoclonal Rabbit IgG Clone # 3202C Catalog Number: MAB11690

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects recombinant human RBFOX3 protein in Direct ELISA.
Source	Recombinant Monoclonal Rabbit IgG Clone # 3202C
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Synthetic Peptide Accession # A6NFN3
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.

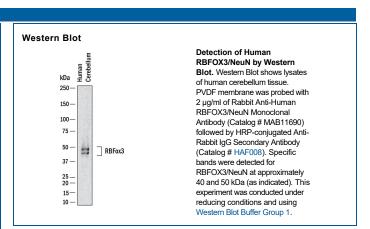
APPLICATIONS				
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.				
	Recommended Concentration	Sample		
Western Blot	2 μg/mL	Human cerebellum tissue		
Immunohistochemistry	1-10 μg/mL	Immersion fixed paraffin-embedded sections of human cerebellum		

DATA

Immunohistochemistry



Detection of RBFOX3/NeuN in Human Cerebellum. RBFOX3/NeuN was detected in immersion fixed paraffinembedded sections of cerebellum using Rabbit Anti-Human RBFOX3/NeuN Monoclonal Antibody (Catalog # MAB11690) at 3 µg/ml for 1 hour at room temperature followed by incubation with the Anti-Rabbit IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC003) or the HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using VisUCyte Antigen Retrieval Reagent-Basic (Catalog # VCTS021). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to the nucleus. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.



Reconstitution	Reconstitute lyophilized material at 0.2 mg/ml in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
	 12 months from date of receipt, -20 to -70 °C as supplied.
	1 month, 2 to 8 °C under sterile conditions after reconstitution.
	 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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Global | bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL: 1.612.379.2956

USA | TEL: 800.343.7475 Canada | TEL: 855.668.8722 Europe | Middle East | Africa TEL: +44.0.1235.529449

China | info.cn@bio-techne.com TEL: 400.821.3475



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BACKGROUND

RBFOX3, also known as Neuronal nuclei (NeuN), is a 34kDa marker of post-mitotic neurons that is highly conserved among different species. The RBFOX family regulates alternative slicing and is encoded by three genes: RBFOX1, RBFOX2 and RBFOX3. RBFOX3 mediates hippocampal circuitry, neurogenesis, and synaptogenesis. RBFOX3 plays a crucial role in normal synaptic function and is implicated in human neurological functions and mutations have been linked to neurodevelopmental delay, cognitive impairment, autistic features, and epilepsy.

References:

- 1. Wang HY, Hsieh PF, Huang DF, Chin PS, Chou CH, Tung CC, Chen SY, Lee LJ, Gau SS, Huang HS. RBFOX3/NeuN is Required for Hippocampal Circuit Balance and Function. Sci Rep. 2015 Dec 1;5:17383. doi: 10.1038/srep17383. PMID: 26619789; PMCID: PMC4664964.
- 2. Huang DF, Lee CY, Chou MY, Yang TY, Cao X, Hsiao YH, Wu RN, Lien CC, Huang YS, Huang HP, Gau SS, Huang HS. Neuronal splicing regulator RBFOX3 mediates seizures via regulating Vamp1 expression preferentially in NPY-expressing GABAergic neurons. Proc Natl Acad Sci U S A. 2022 Aug 16;119(33):e2203632119. doi: 10.1073/pnas.2203632119. Epub 2022 Aug 11. PMID: 35951651; PMCID: PMC9388145.