bs-10394R **[Primary Antibody]**

NeuN Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 146713 **SWISS:** A6NFN3

Target: NeuN

Immunogen: KLH conjugated synthetic peptide derived from human FOX3: 101-200/312.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: This gene encodes a member of the RNA-binding FOX protein family which is involved in the regulation of alternative splicing of pre-mRNA. The protein has an N-terminal proline-rich region, an RNA recognition motif (RRM) domain, and a C-terminal alanine-rich region. This gene produces the neuronal nuclei (NeuN) antigen that has been widely used as a marker for post-mitotic neurons. This gene has its highest expression in the central nervous system and plays a prominent role in neural tissue development and regulation of adult brain function. Mutations in this gene have been associated with numerous neurological disorders. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, May 2017]

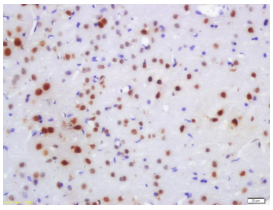
Applications: **IHC-P** (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1ug/test)
ICC/IF (1:100)

Reactivity: Human, Rat (predicted: Mouse, Sheep, Cow, Bee, Horse)

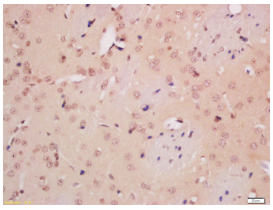
Predicted MW.: 34 kDa

Subcellular Location: Cytoplasm ,Nucleus

VALIDATION IMAGES



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-NeuN/FOX3 Polyclonal Antibody, Unconjugated(bs-10394R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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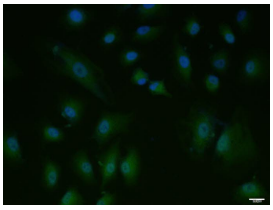
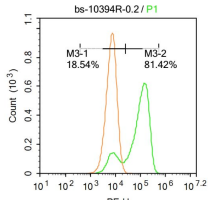


A549 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (NeuN) polyclonal Antibody, Unconjugated (bs-10394R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Blank control:A549. Primary Antibody (green line): Rabbit Anti-NeuN antibody (bs-10394R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 20% PBST for 20 min at-20°C. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=9.038]** Zhi Li. et al. Long-term exposure to 2-amino-3-methylimidazo[4,5-f]quinoline can trigger a potential risk of Parkinson's disease. J Hazard Mater. 2021 Jun;412:125230 IF ;Zebrafish. 10.1016/j.jhazmat.2021.125230
- **[IF=6.208]** Jia Wang. et al. FOXG1 Contributes Adult Hippocampal Neurogenesis in Mice. INT J MOL SCI. 2022 Jan;23(23):14979 IHC,IF ;Mouse. 36499306
- **[IF=6.291]** Hongmei Zhou. et al. Downregulation of beclin 1 restores arsenite-induced impaired autophagic flux by improving the lysosomal function in the brain. Ecotox Environ Safe. 2022 Jan;229:113066 IF ;Mouse. 34929507
- **[IF=4.652]** Zhang et al. The Neuroprotective Effect of Puerarin in Acute Spinal Cord Injury Rats. (2016) Cell.Physiol.Bioche. 39:1152-64 IHC ;Rat. 27576607
- **[IF=4.831]** Haoqiang Zhang. et al. Liraglutide improved the cognitive function of diabetic mice via the receptor of advanced glycation end products down-regulation.. Aging-Us. 2021 Jan 15; 13(1): 525–536 IF ;Fish. 33298623