

## Rabbit Anti-NeuN antibody

SL10394R

<b>Product Name</b>	NeuN
<b>Chinese Name</b>	神经元核抗原抗体
<b>Alias</b>	RFOX3_HUMAN; RNA binding protein fox-1 homolog 3; RBFOX3; Fox-1 homolog C; Neuronal nuclei antigen (NeuN antigen); FOX3; FOX-3; HRNBP3;
<b>Research Area</b>	Cell biology Neurobiology Apoptosis Transporter Cell type markers Epigenetics
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	Human,Rat(predicted:Bee,Sheep,Horse,Cow,Mouse) IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,Flow-Cyt=1ug/test (Paraffin sections need antigen repair)
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Theoretical molecular weight</b>	34kDa
<b>Cellular localization</b>	The nucleus cytoplasmic
<b>Form</b>	Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human FOX3: 101-200/312
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Buffer Solution</b>	Human,Rat(predicted:Bee,Sheep,Horse,Cow,Mouse)1M TBS(pH7.4) with 1% BSA, Human,Rat(predicted:Bee,Sheep,Horse,Cow,Mouse)3% Proclin300 and 50% Glycerol.
<b>Storage</b>	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
<b>Attention</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>PubMed</b>	<a href="#">PubMed</a>
<b>Product</b>	This gene encodes a member of the RNA-binding FOX protein family which is involved in the

## Detail

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]

### Function:

RNA-binding protein that regulates alternative splicing events.

### Subcellular Location:

Nucleus. Cytoplasm.

### Tissue Specificity:

Expressed in activated, but not resting, CD4+ T-cells and activated monocytes.

### Similarity:

Contains 1 RRM (RNA recognition motif) domain.

### SWISS:

A6NFN3

### Gene ID:

146713

### Database links:

[Entrez Gene: 146713](#) Human

[Entrez Gene: 52897](#) Mouse

[Entrez Gene: 287847](#) Rat

[SwissProt: A6NFN3](#) Human

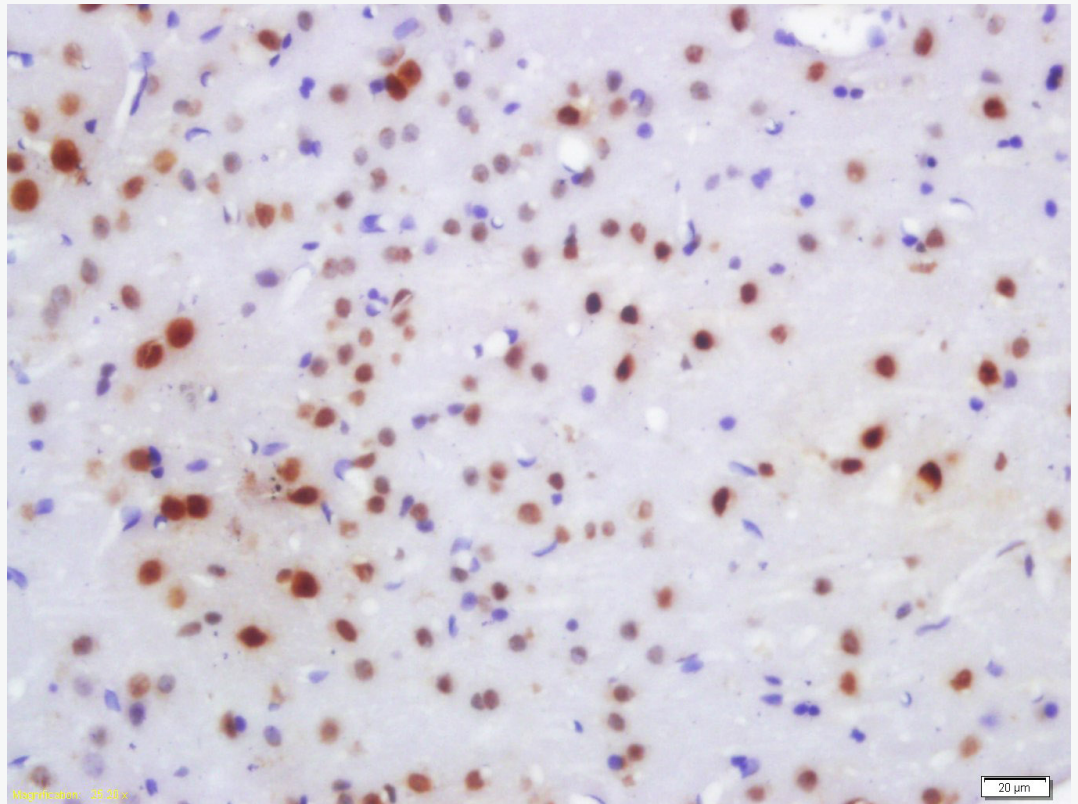
[SwissProt: Q8BIF2](#) Mouse

[Unigene: 135229](#) Human

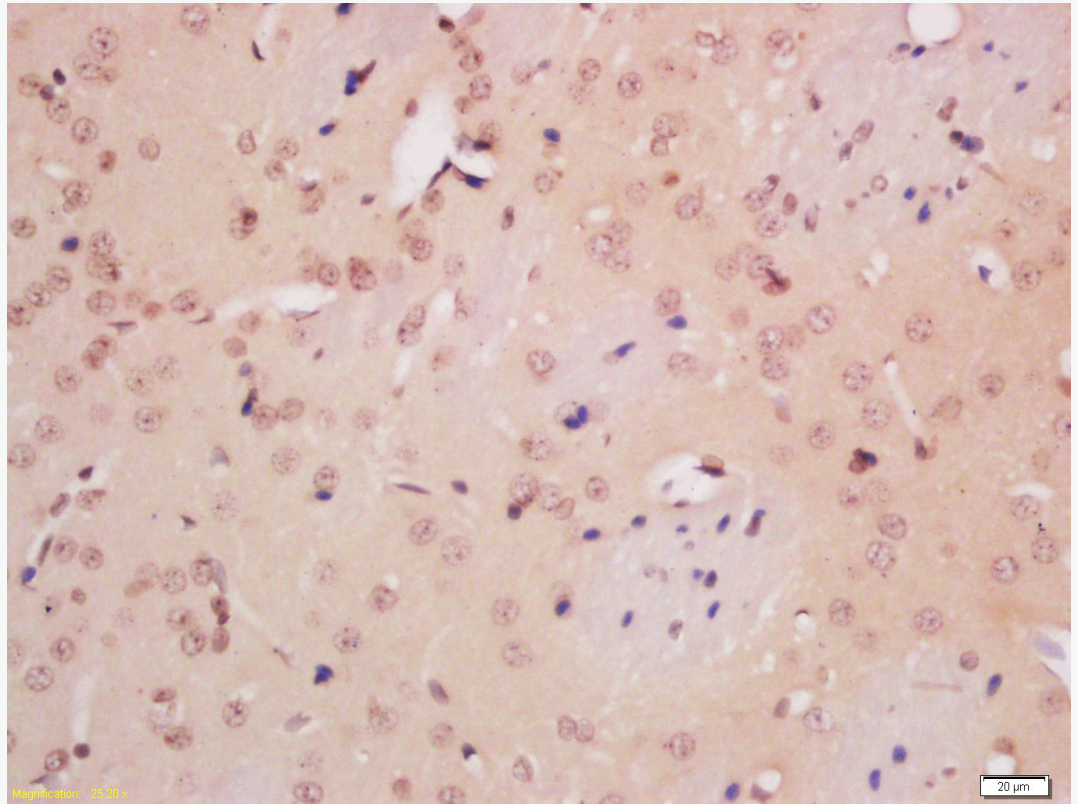
[Unigene: 341103](#) Mouse

[Unigene: 143966](#) Rat

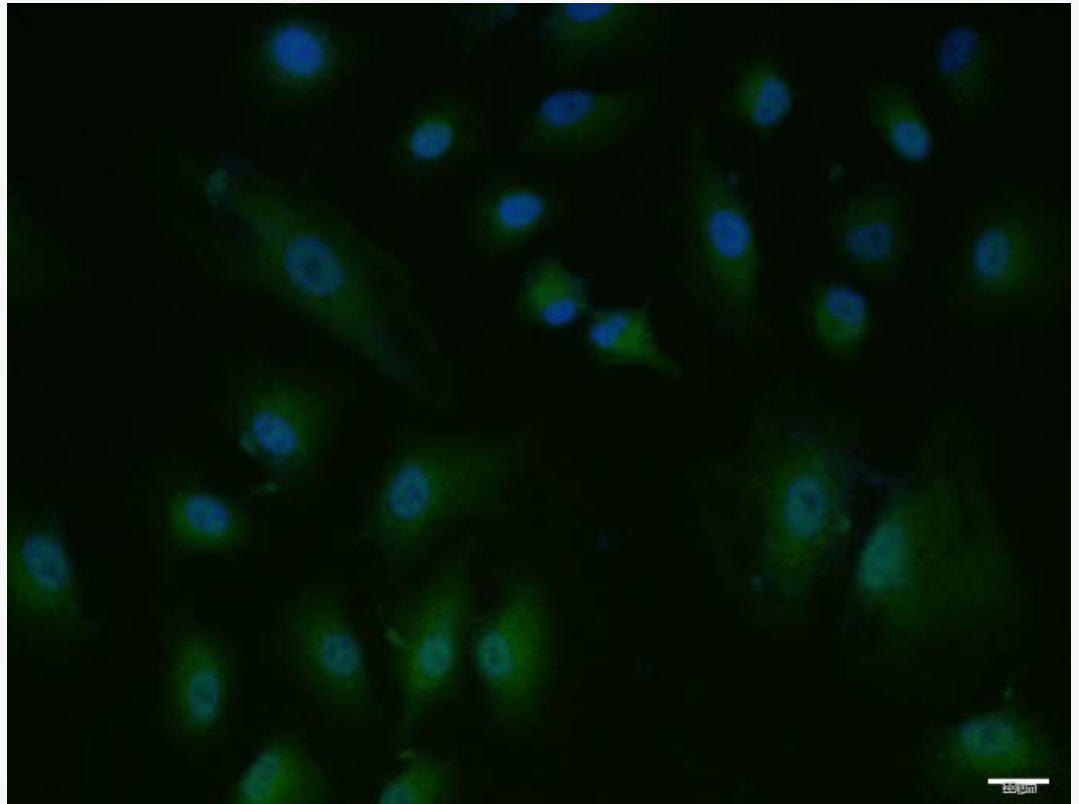
**Product  
Picture**



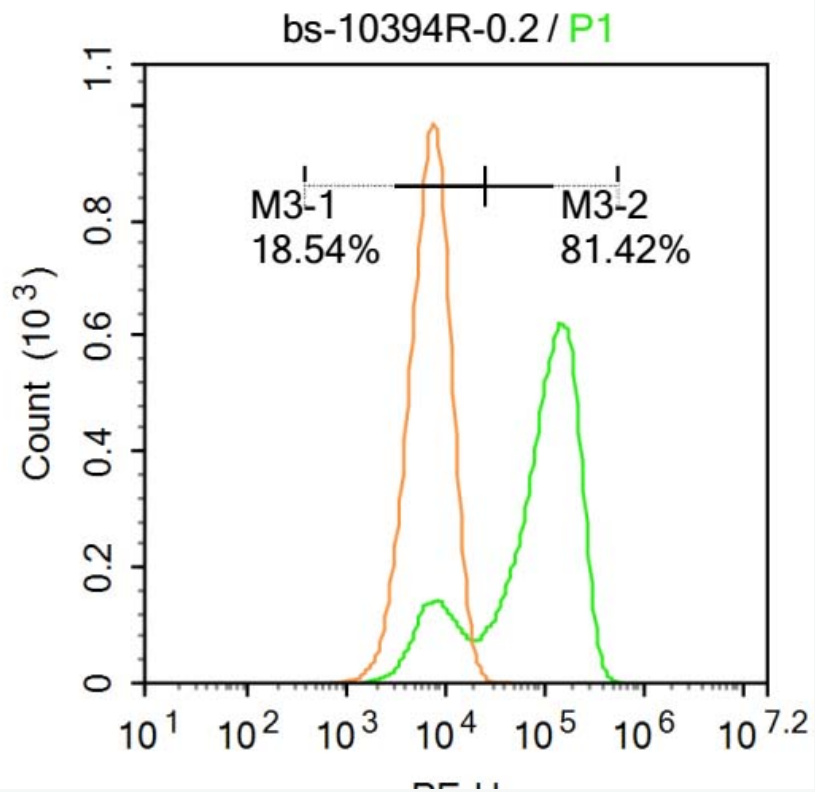
Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer  
( Human,Rat(predicted:Bee,Sheep,Horse,Cow,Mouse)1M, pH 6.0 ), Boiling bathing  
for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min;  
Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-NeuN/FOX3 Polyclonal Antibody, Unconjugated(SL10394R) 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 (SL10394R) 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 (SL10394R)

Dilution: 1 $\mu$ g /10<sup>6</sup> cells;

Isotype Control Antibody (orange line): Rabbit IgG .

Secondary Antibody : Goat anti-rabbit IgG-PE

Dilution: 1 $\mu$ g /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.