SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-NeuN antibody

Catalog Number: SL1613R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	NeuN
Immunogen:	KLH conjugated synthetic peptide derived from human NeuN: 51-150/312
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℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human,Dog,Cow,Horse)
Predicted MW.:	34kDa
Subcellular Location:	The nucleus cytoplasmic
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] **Function:** RNA-binding protein that regulates alternative splicing events. **Subcellular Location:** Nucleus. Cytoplasm.

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	Similarity: Contains 1 RRM (RNA recognition motif) domain. **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 Neurobiology-related proteins

[VALIDATION IMAGES]

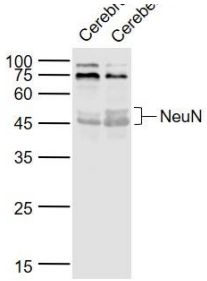


Figure 1. Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug Lane 2: Cerebellum (Mouse) Lysate at 40 ug Primary: Anti-NeuN (SL1613R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 34 kD Observed band size: 46/50 kD

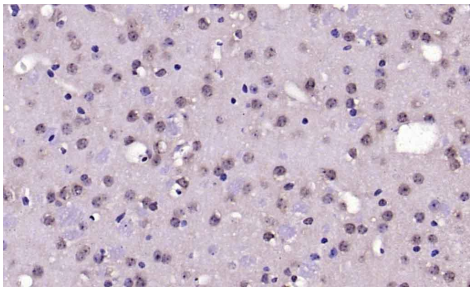


Figure 2. Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NeuN) Polyclonal Antibody, Unconjugated (SL1613R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

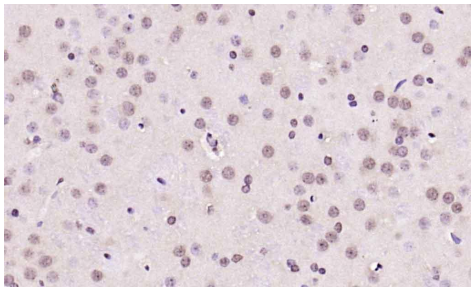


Figure 3. Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NeuN) Polyclonal Antibody, Unconjugated (SL1613R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

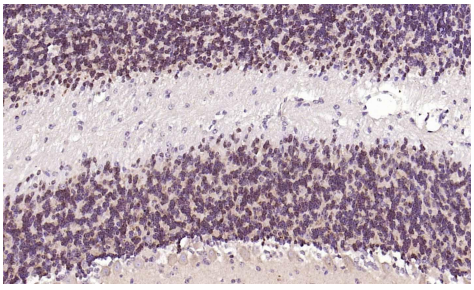


Figure 4. Paraformaldehyde-fixed, paraffin embedded (mouse cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (NeuN) Polyclonal Antibody, Unconjugated (SL1613R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

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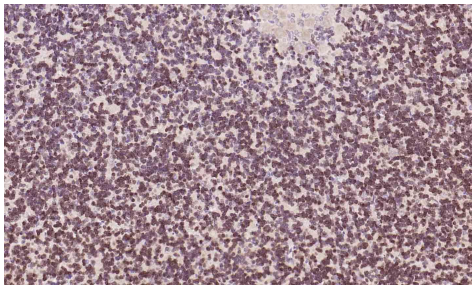


Figure 5. Paraformaldehyde-fixed, paraffin embedded (rat cerebellum); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Incubation with (NeuN) Polyclonal Antibody, Unconjugated (SL1613R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining

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