



## Rabbit Anti-Nogo R antibody

SL0129R

<b>Product Name:</b>	Nogo R
<b>Chinese Name:</b>	轴索过度生长抑制因子受体/Nogo受体抗体
<b>Alias:</b>	NgR; Nogo-66 receptor; NogoR; Nogo-R; Reticulon 4 receptor; Rtn4r; RTN4R_RAT.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Mouse,Rat,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	48kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from mouse Nogo R:151-350/473
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	Axons are essential for neuronal communication but they do not regenerate after injury to the adult mammalian brain or spinal cord. Failed regeneration is due in part to the production of a potent axonal growth inhibitor, Nogo, by myelinating cells. The finding of a high affinity axonal receptor for the extracellular domain of Nogo provides the first insight into the basis of Nogo action. Disrupting the interaction of Nogo with the Nogo-66 receptor may facilitate axonal regeneration in vivo. The protein is dubbed the Nogo

receptor because it binds with several other proteins that block neural growth. It is found to be ubiquitous in the brain and spinal cord.

**Function:**

Receptor for RTN4, OMG and MAG. Mediates axonal growth inhibition and may play a role in regulating axonal regeneration and plasticity in the adult central nervous system. Acts in conjunction with RTN4 and LIGO1 in regulating neuronal precursor cell motility during cortical development (By similarity).

**Subunit:**

Homomultimer. Interacts with LINGO1. Interacts with KIAA0319L.

**Subcellular Location:**

Cell membrane; Lipid-anchor, GPI-anchor.

**Similarity:**

Belongs to the Nogo receptor family.  
Contains 8 LRR (leucine-rich) repeats.  
Contains 1 LRRCT domain.  
Contains 1 LRRNT domain.

**SWISS:**

Q99PI8

**Gene ID:**

65079

**Database links:**

[Entrez Gene: 65078](#)Human

[Entrez Gene: 65079](#)Mouse

[Entrez Gene: 113912](#)Rat

[Omim: 605566](#)Human

[SwissProt: Q9BZR6](#)Human

[SwissProt: Q99PI8](#)Mouse

[SwissProt: Q99M75](#)Rat

[Unigene: 30868](#)Human

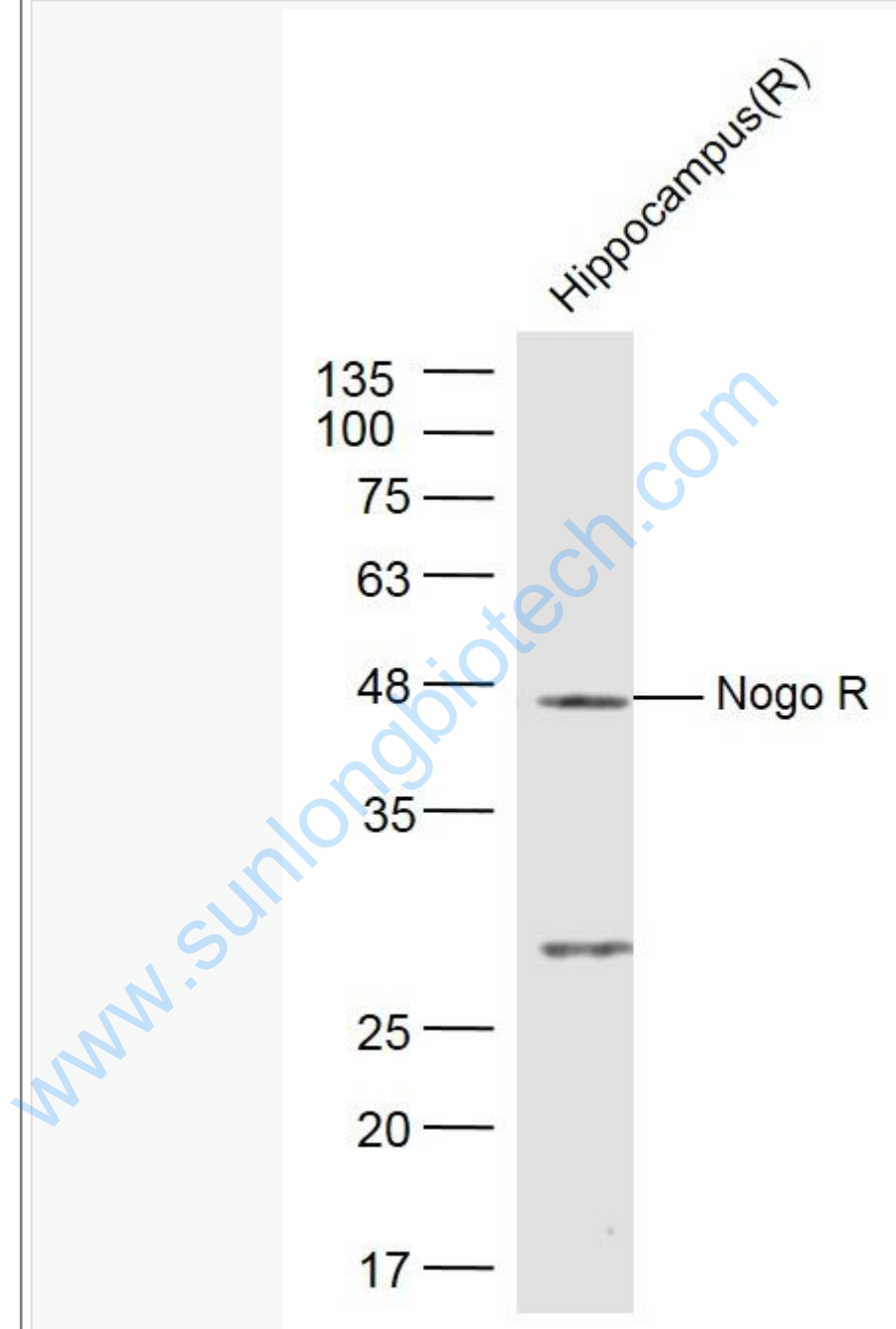
[Unigene: 40149](#)Mouse

**Important Note:**

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

Picture:



Sample:

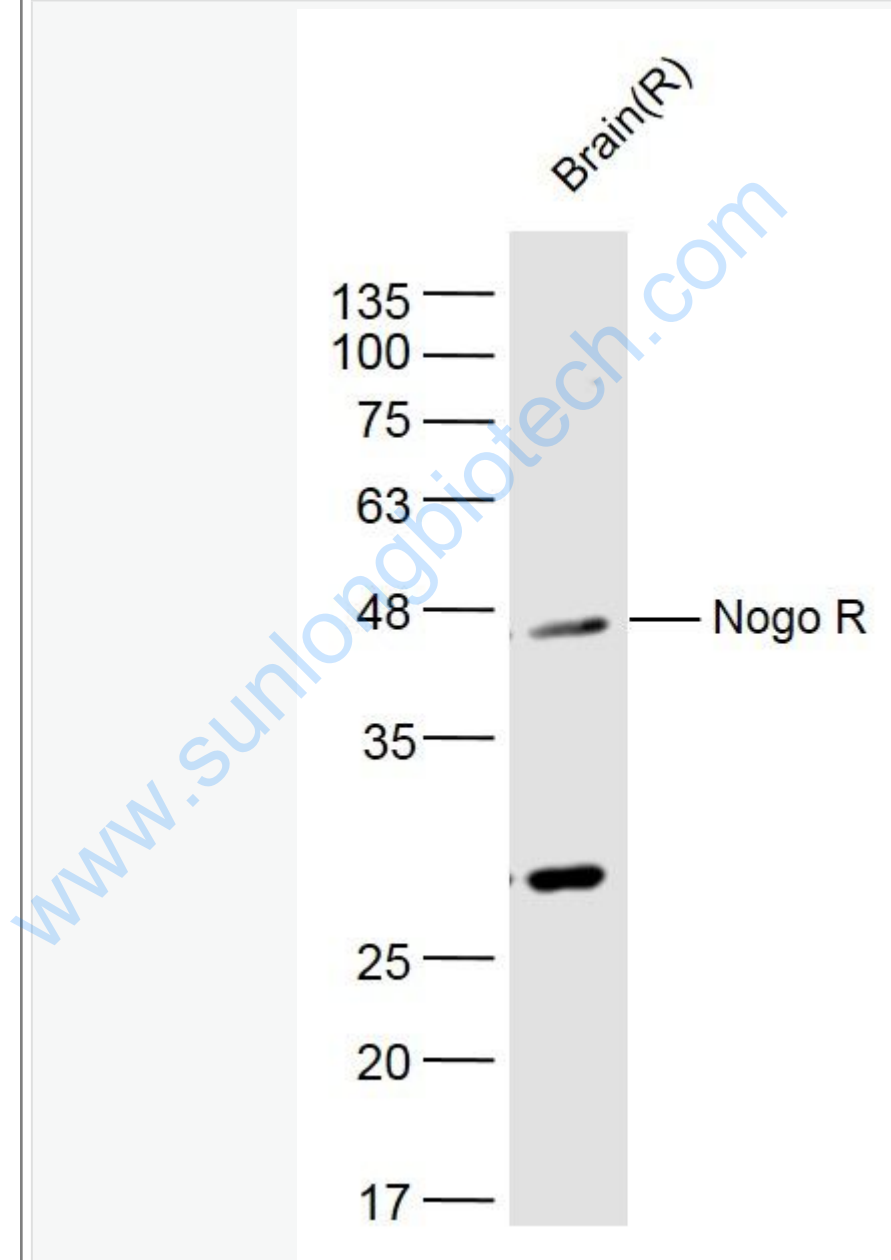
Hippocampus (Rat) Lysate at 40 ug

Primary: Anti- Nogo R (SL0129R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 48 kD

Observed band size: 48 kD



Sample:

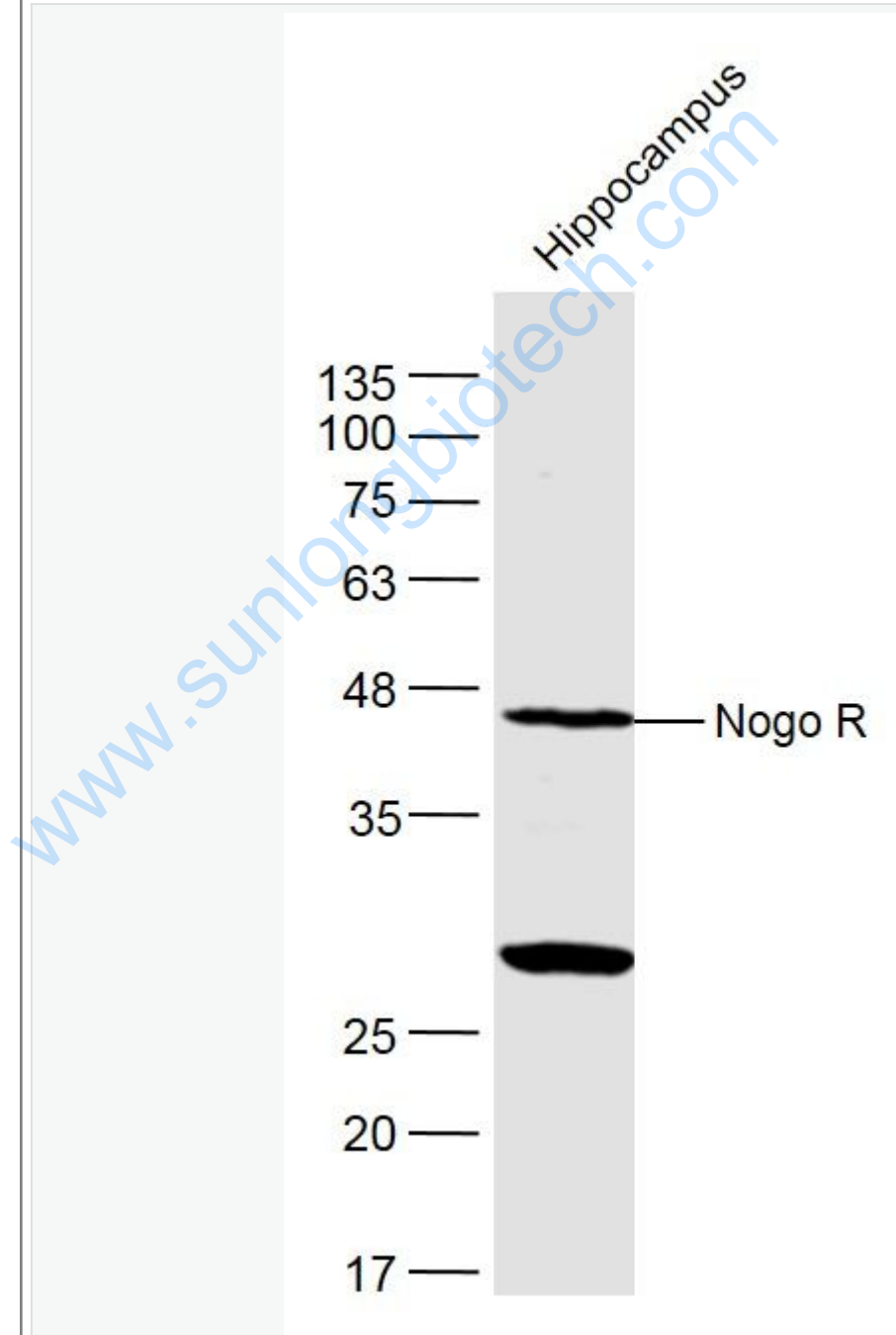
Brain (Rat) Lysate at 40 ug

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Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

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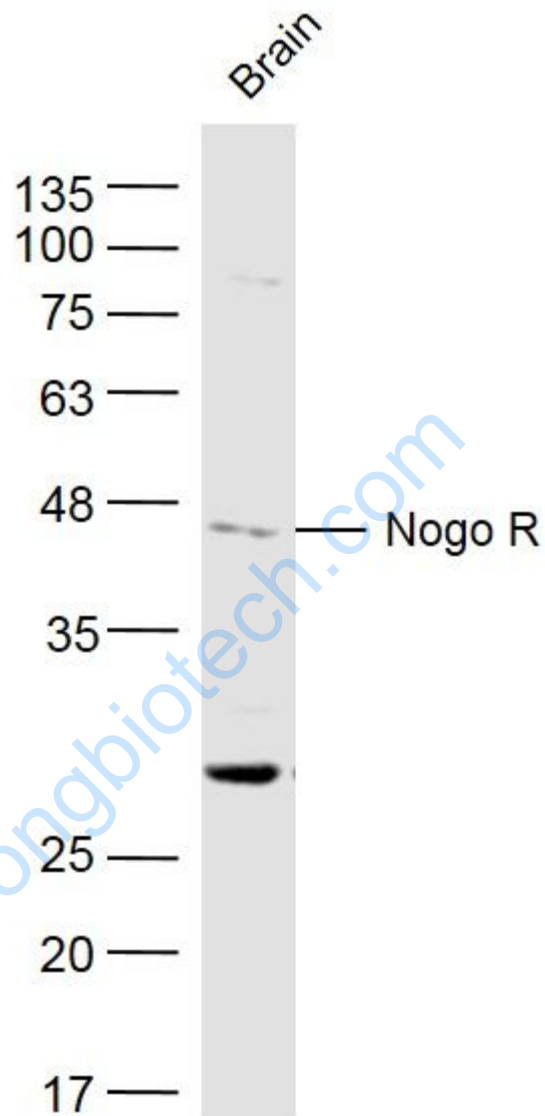
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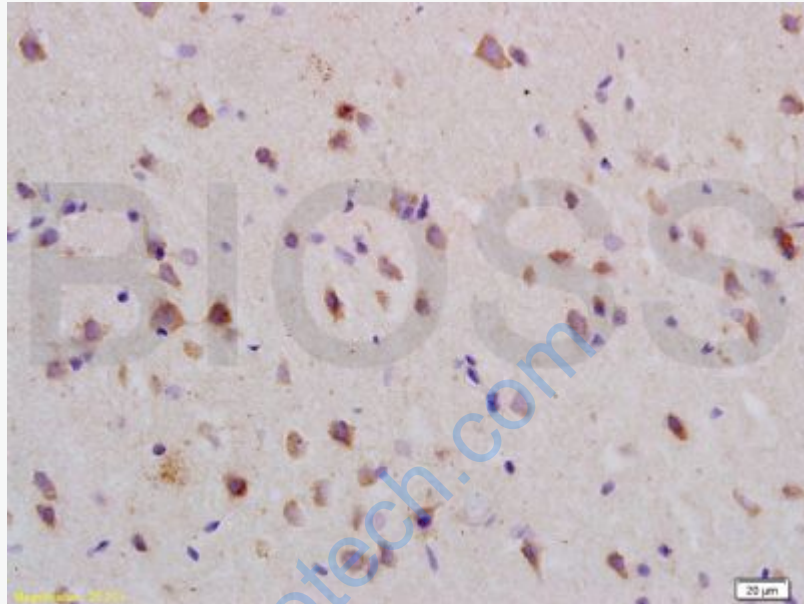
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Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;  
Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;  
Incubation: Anti-Nogo-R Polyclonal Antibody, Unconjugated(SL0129R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining