SunLong Biotech Co.,LTD
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Rabbit Anti-Nogo R antibody

SL0129R

Product Name	Nogo R
Chinese Name	轴索过度生长抑制因子受体/Nogo 受体抗体
Alias	NgR; Nogo-66 receptor; Nogor; NogoR; Nogo-R; Reticulon 4 receptor; Rtn4r; RTN4R_RAT.
Research Area	Neurobiology
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse, Rat,
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	48kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from mouse Nogo R: 151-350/473
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product	Axons are essential for neuronal communication but they do not regenerate after injury

Detail

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

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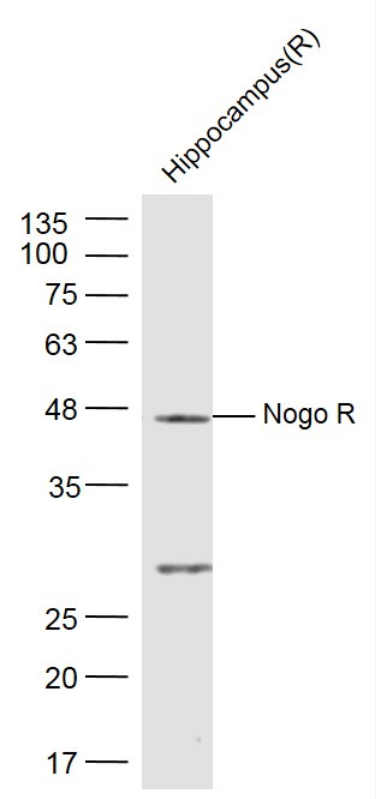
SwissProt: Q99M75 Rat

Unigene: 30868 Human

Unigene: 40149 Mouse

Product 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

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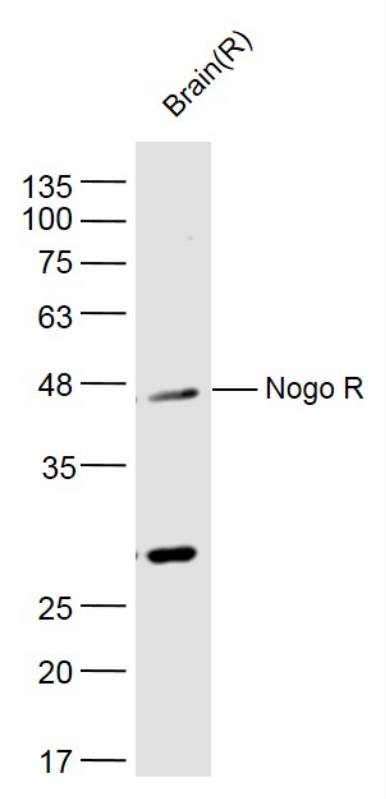

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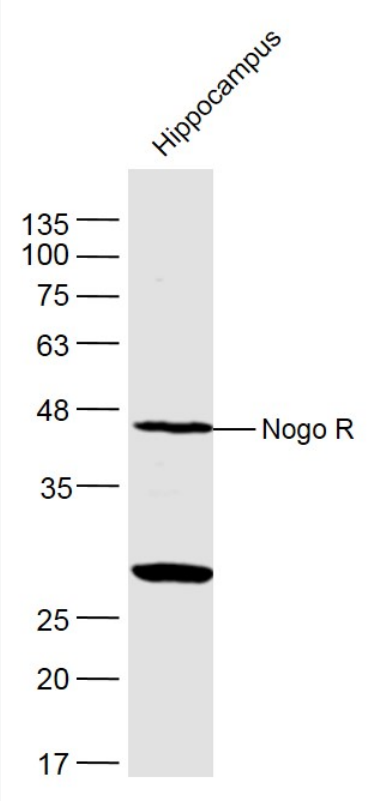

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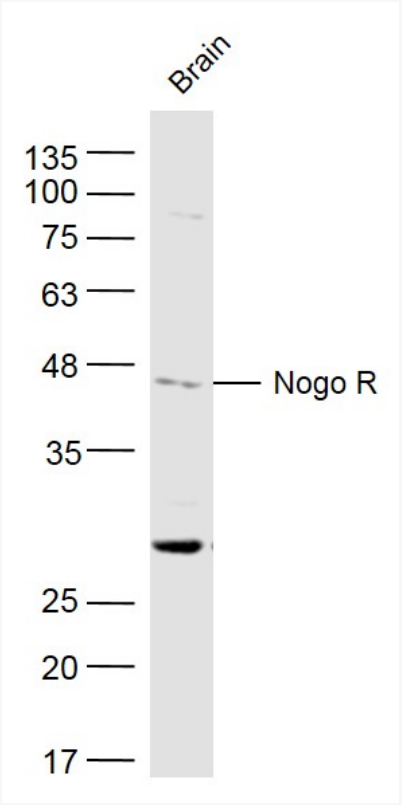

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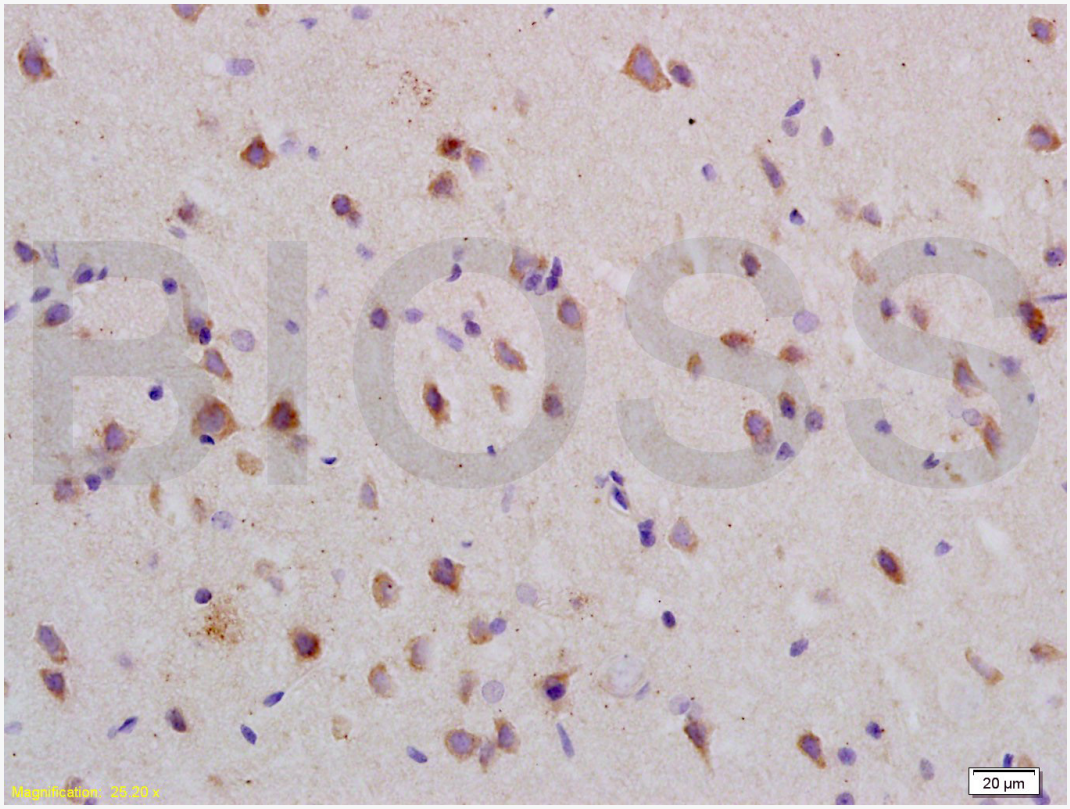

Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

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