



## Rabbit Anti-NTR3 antibody

SL6329R

<b>Product Name:</b>	NTR3
<b>Chinese Name:</b>	神经降压素受体3/glycoprotein95抗体
<b>Alias:</b>	100 kDa NT receptor; Glycoprotein 95; Gp 95; Gp95; Neurotensin receptor 3; NT 3; NT3; NTR 3; NTR3; SORT 1; SORT_HUMAN; SORT1 (gene name); SORT1; Sortilin 1; Sortilin; Sortilin1.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Guinea Pig,
<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>	84kDa
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Sortilin/NTR3/Gp95:731-831/831
<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>	Functions as a sorting receptor in the Golgi compartment and as a clearance receptor on the cell surface. Required for protein transport from the Golgi apparatus to the lysosomes by a pathway that is independent of the mannose-6-phosphate receptor (M6PR). Also required for protein transport from the Golgi apparatus to the endosomes. Promotes neuronal apoptosis by mediating endocytosis of the proapoptotic precursor

forms of BDNF (proBDNF) and NGFB (proNGFB). Also acts as a receptor for neurotensin. May promote mineralization of the extracellular matrix during osteogenic differentiation by scavenging extracellular LPL. Probably required in adipocytes for the formation of specialized storage vesicles containing the glucose transporter SLC2A4/GLUT4 (GLUT4 storage vesicles, or GSVs). These vesicles provide a stable pool of SLC2A4 and confer increased responsiveness to insulin. May also mediate transport from the endoplasmic reticulum to the Golgi. Tissue specificity: Expressed at high levels in brain, spinal cord, heart, skeletal muscle, thyroid, placenta and testis. Expressed at lower levels in lymphoid organs, kidney, colon and liver.

**Function:**

Functions as a sorting receptor in the Golgi compartment and as a clearance receptor on the cell surface. Required for protein transport from the Golgi apparatus to the lysosomes by a pathway that is independent of the mannose-6-phosphate receptor (M6PR). Also required for protein transport from the Golgi apparatus to the endosomes. Promotes neuronal apoptosis by mediating endocytosis of the proapoptotic precursor forms of BDNF (proBDNF) and NGFB (proNGFB). Also acts as a receptor for neurotensin. May promote mineralization of the extracellular matrix during osteogenic differentiation by scavenging extracellular LPL. Probably required in adipocytes for the formation of specialized storage vesicles containing the glucose transporter SLC2A4/GLUT4 (GLUT4 storage vesicles, or GSVs). These vesicles provide a stable pool of SLC2A4 and confer increased responsiveness to insulin. May also mediate transport from the endoplasmic reticulum to the Golgi.

**Subunit:**

Interacts with LPL and SLC2A4 (By similarity). Interacts with the cytosolic adapter proteins GGA1 and GGA2. Interacts with numerous ligands including the receptor-associated protein LRPAP1/RAP, GM2A, NTS and PSAP. Forms a complex with NGFR which binds specifically to the precursor forms of NGFB (proNGFB) and BDNF (proBDNF).

**Subcellular Location:**

Membrane; Single-pass type I membrane protein. Endoplasmic reticulum membrane; Single-pass type I membrane protein (Potential). Endosome membrane; Single-pass type I membrane protein (Potential). Golgi apparatus, Golgi stack membrane; Single-pass type I membrane protein (Potential). Lysosome membrane; Single-pass type I membrane protein (Potential). Nucleus membrane; Single-pass type I membrane protein (Potential). Cell membrane; Single-pass type I membrane protein; Extracellular side. Lysosome membrane; Single-pass type I membrane protein (Potential). Note=Localized to membranes of the endoplasmic reticulum, endosomes, Golgi stack, lysosomes and nucleus. A small fraction of the protein is also localized to the plasma membrane. May also be found in SLC2A4/GLUT4 storage vesicles (GSVs) in adipocytes. Localization to the plasma membrane in adipocytes may be enhanced by insulin.

**Tissue Specificity:**

Expressed at high levels in brain, spinal cord, heart, skeletal muscle, thyroid, placenta

and testis. Expressed at lower levels in lymphoid organs, kidney, colon and liver.

**Post-translational modifications:**

The N-terminal propeptide is cleaved by furin and possibly other homologous proteases.

**DISEASE:**

Note=A common polymorphism located in a non-coding region between CELSR2 and PSRC1 alters a CEBP transcription factor binding site and is responsible for changes in hepatic expression of SORT1. Altered SORT1 expression in liver affects low density lipoprotein cholesterol levels in plasma and is associated with susceptibility to myocardial infarction.

**Similarity:**

Belongs to the VPS10-related sortilin family. SORT1 subfamily. Contains 9 BNR repeats.

**SWISS:**

Q99523

**Gene ID:**

6272

**Database links:**

[Entrez Gene: 6272](#) Human

[Entrez Gene: 20661](#) Mouse

[Entrez Gene: 83576](#) Rat

[Oimim: 602458](#) Human

[SwissProt: Q99523](#) Human

[SwissProt: Q6PHU5](#) Mouse

[SwissProt: O54861](#) Rat

[Unigene: 485195](#) Human

[Unigene: 703487](#) Human

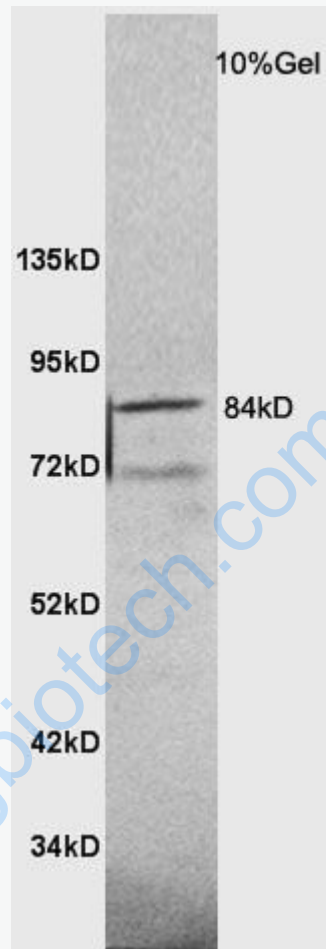
[Unigene: 157119](#) Mouse

[Unigene: 11286](#) Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample: Brain (Rat) Lysate at 40 ug

Primary: Anti-NTR3 (SL6329R) at 1/300 dilution

Secondary: HRP conjugated Goat-Anti-rabbit IgG (SL6329R) at 1/5000 dilution

Predicted band size: 84 kD

Observed band size: 84 kD

Heart

180 —  
130 —  
95 —  
70 —  
53 —  
40 —  
33 —  
25 —

NTR3

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Sample:

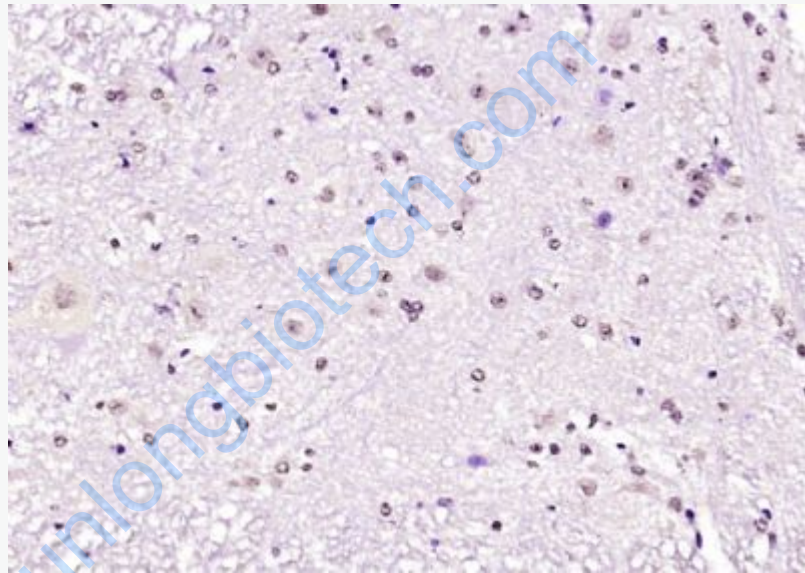
Heart (Mouse) Lysate at 40 ug

Primary: Anti-NTR3 (SL6329R) at 1/1000 dilution

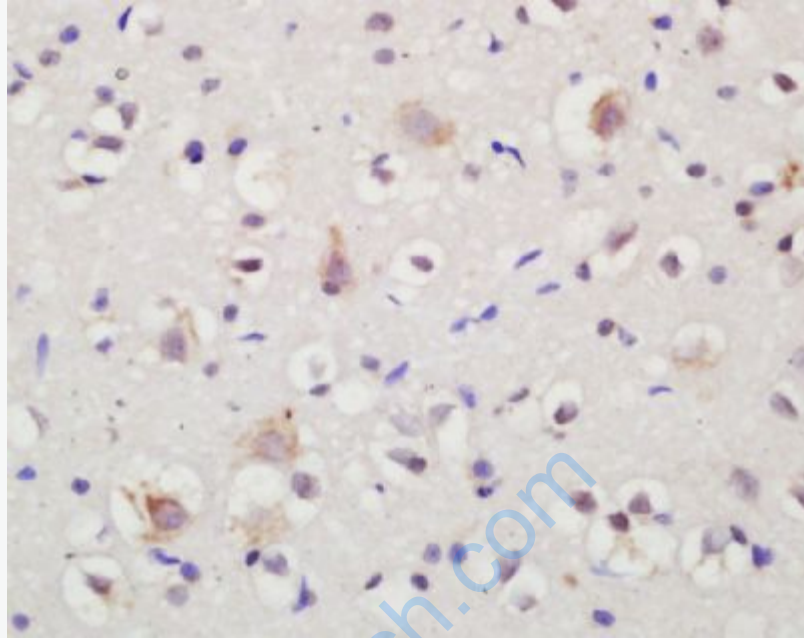
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 84 kD

Observed band size: 84 kD



Paraformaldehyde-fixed, paraffin embedded (mouse spinal cord); 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 (NTR3) Polyclonal Antibody, Unconjugated (SL6329R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Tissue/cell: mouse 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-NTR3 Polyclonal Antibody, Unconjugated(SL6329R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining