SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-NTR3/Cy3 Conjugated antibody

Catalog Number: SL6329R-Cy3

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	NTR3/Cy3 Conjugated
Immunogen:	KLH conjugated synthetic peptide derived from human Sortilin/NTR3/Gp95
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human,Dog,Pig,Cow,Horse,GuineaPig)
Background:	background: 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

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	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 compartmentand as a clearance receptor on the cell surface. Required forprotein transport from the Golgi apparatus to the lysosomes by apathway that is independent of the mannose-6-phosphate receptor(M6PR). Also required for protein transport from the Golgiapparatus to the endosomes. Promotes neuronal apoptosis bymediating endocytosis of the proapoptotic precursor forms of BDNF(proBDNF) and NGFB (proNGFB). Also acts as a receptor forneurotensin. May promote mineralization of the extracellular matrixduring osteogenic differentiation by scavenging extracellular LPL.Probably required in adipocytes for the formation of specializedstorage vesicles containing the glucose transporter SLC2A4/GLUT4(GLUT4 storage vesicles, or GSVs). These vesicles provide a stablepool of SLC2A4 and confer increased responsiveness to insulin. Mayalso mediate transport from the endoplasmic reticulum to the Golgi. **Subunit:** Interacts with LPL and SLC2A4 (By similarity). Interactswith the cytosolic adapter proteins GGA1 and GGA2. Interacts withnumerous ligands including the receptor-associated proteinLRPAP1/RAP, GM2A, NTS and PSAP. Forms a complex with NGFR whichbinds specifically to the precursor forms of NGFB (proNGFB) andBDNF (proBDNF). **Subcellular Location:** Membrane; Single-pass type I membraneprotein. Endoplasmic reticulum membrane; Single-pass type Imembrane protein (Potential). Endosome membrane; Single-pass type Imembrane protein (Potential). Golgi apparatus, Golgi stackmembrane; Single-pass type I membrane protein (Potential). Lysosomemembrane; Single-pass type I membrane protein (Potential). Nucleusmembrane; Single-pass type I membrane protein (Potential). Cellmembrane; 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 ofthe protein is also localized to the plasma membrane. May also befound in SLC2A4/GLUT4 storage vesicles (GSVs) in adipocytes.Localization to the plasma membrane in adipocytes may be enhancedby insulin. **Tissue Specificity:** Expressed at high levels in brain, spinalcord, heart, skeletal muscle, thyroid, placenta and testis.Expressed at lower levels in lymphoid organs, kidney, colon andliver. **Post-translational modifications:** The N-terminal propeptide is cleaved by furin and possiblyother homologous proteases.

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	DISEASE: Note=A common polymorphism located in a non-coding regionbetween CELSR2 and PSRC1 alters a CEBP transcription factor bindingsite and is responsible for changes in hepatic expression of SORT1.Altered SORT1 expression in liver affects low density lipoproteincholesterol levels in plasma and is associated with susceptibilityto myocardial infarction. **Similarity:** Belongs to the VPS10-related sortilin family. SORT1subfamily. Contains 9 BNR repeats. **Database links:** **Entrez Gene:** 6272 Human **Entrez Gene:** 20661 Mouse **Entrez Gene:** 83576 Rat Omim: 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.

[VALIDATION IMAGES]

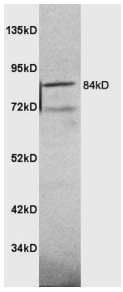


Figure 1. Sample: Brain (Rat) Lysate at 40 ug Primary: Anti-NTR3 (SL6329R) at 1/300 dilution Secondary: HRP conjugated Goat-Anti-rabbit IgG (SL0295G-HRP) at 1/5000 dilution Predicted band size: 84 kD Observed band size: 84 kD

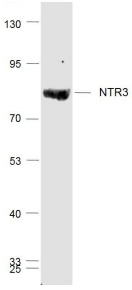


Figure 2. Sample: Heart (Mouse) Lysate at 40 ug Primary: Anti-NTR3 (SL6329R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 84 kD Observed band size: 84 kD

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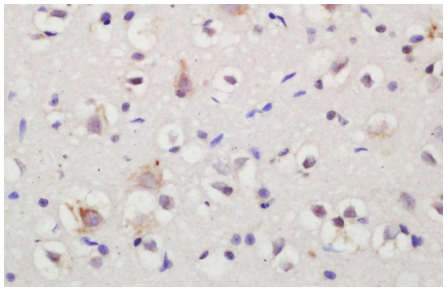


Figure 3. Tissue/cell: mouse brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min; Incubation: 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

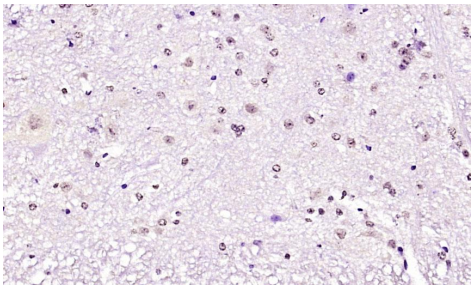


Figure 4. Paraformaldehyde-fixed, paraffin embedded (mouse spinal cord); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (NTR3) Polyclonal Antibody, Unconjugated (SL6329R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining Journal PMID IF Application [IF=4.26] Paik et al. Using intracellular markers to identify a novel set of surface markers for live cell purification from a heterogeneous hIPSC culture. (2018) Sci.Rep. 8:804 FCM/FACS ; Human . Research Area Cardiovascular Cell biology immunology Neurobiology Apoptosis Immunogen Species Rabbit Clonality Polyclonal React Species Mouse,Rat(predicted:Human,Dog,Pig,Cow,Horse,GuineaPig) Applications IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. Molecular weight 84kDa Form Lyophilized or Liquid Concentration 1mg/ml immunogen KLH conjugated synthetic peptide derived from human Sortilin/NTR3/Gp95 Lsotype IgG Purification a

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