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Rabbit Anti-NETO1 antibody

SL8588R

Product Name:	NETO1
Chinese Name:	脑低密度Lipoprotein受体蛋白1抗体
Alias:	BCTL1; Brain specific transmembrane protein containing 2 CUB and 1 LDL receptor class A domains protein 1; Brain-specific transmembrane protein containing 2 CUB and 1 LDL-receptor class A domains protein 1; BTCL1; Neto1; NETO1_HUMAN; Neuropilin and tolloid like 1; Neuropilin and tolloid-like protein 1.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Pig,Cow,Rabbit,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	56kDa
Cellular localization:	The cell membraneSecretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human NETO1:201-300/533<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	NETO1 is a 533 amino acid protein that contains one LDL-receptor class A domain and two CUB domains and is either membrane-bound or secreted. Expressed as three alternatively spliced isoforms, the first two of which are retina-specific and the third of

which is found in both retina and brain tissue, NETO1 is thought to be involved in the development and maintenance of neuronal circuitry, possibly playing a role in proper brain function. Human NETO1 shares 95% amino acid identity with its mouse counterpart, suggesting a conserved role between species. The gene encoding NETO1 maps to human chromosome 18, which houses over 300 protein-coding genes and contains nearly 76 million bases. There are a variety of diseases associated with defects in chromosome 18-localized genes, some of which include Trisomy 18 (also known as Edwards syndrome), Niemann-Pick disease, hereditary hemorrhagic telangiectasia, erythropoietic protoporphyria and follicular lymphomas.

Function:
Involved in the development and/or maintenance of neuronal circuitry. Accessory subunit of the neuronal N-methyl-D-aspartate receptor (NMDAR) critical for maintaining the abundance of GRIN2A-containing NMDARs in the postsynaptic density. Regulates long-term NMDA receptor-dependent synaptic plasticity and cognition, at least in the context of spatial learning and memory.

Subunit:
Interacts with PLZ domains of DLG2, DLG3 and DLG4 via its C-terminal TRV domain. Interacts with GRIN2A and GRIN2B via its CUB domains.

Subcellular Location:
Isoform 2: Cell membrane; Single-pass type I membrane protein (Potential). Cell junction, synapse, postsynaptic cell membrane, postsynaptic density. Note=Component of the postsynaptic density (PSD) of excitatory synapses. Isoform 3: Cell membrane; Single-pass type I membrane protein (Potential).Isoform 1: Secreted (Potential).

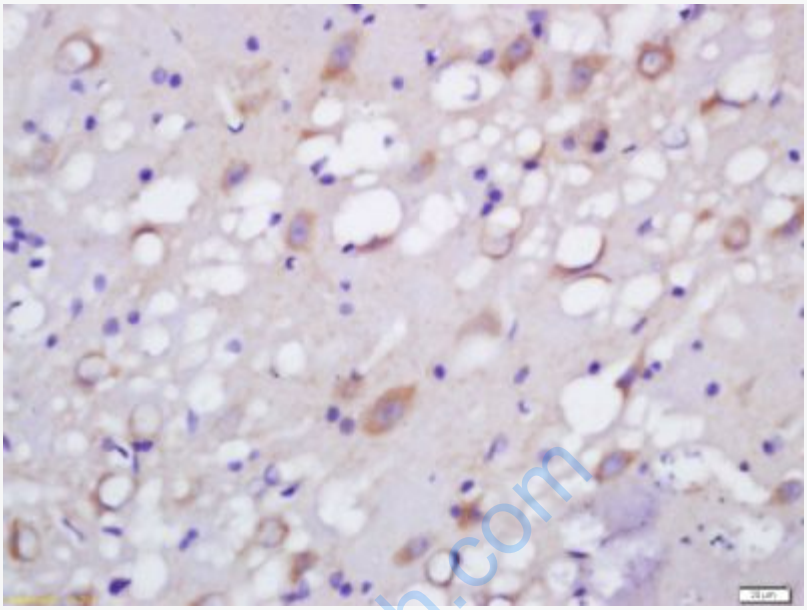
Tissue Specificity:
Isoform 1 and isoform 2 are retina-specific. Isoform 3 is found in retina as well as at lower levels in adult and fetal brain.

Similarity:
Contains 2 CUB domains.
Contains 1 LDL-receptor class A domain.

SWISS:
Q8TDF5

Gene ID:
81832

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

Picture:	 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℃ for 20 min; Incubation: Anti-NETO1 Polyclonal Antibody, Unconjugated(SL8588R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining