

Mouse Monoclonal Antibody to Human Neuropilin And Tolloid-Like 1

Cat. No. CAB11586MH **Lot. No.** (See product label)

SPECIFICATION

Product Overview Mouse Monoclonal Antibody to Human Neuropilin And Tolloid-Like 1

Species Human

Source Mouse

Antigen Description

Neuropilin and tolloid-like protein 1, also known as brain-specific transmembrane protein containing 2 CUB and 1 LDL-receptor class A domains protein 1, NETO1 and BTCL1, is a single-pass type I membrane protein which contains two CUB domains and contains one LDL-receptor class A domain. Isoform 1 and isoform 2 of NETO1 / BTCL1 are retina-specific. Isoform 3 is found in retina as well as at lower levels in adult and fetal brain. NETO1 / BTCL1 interacts with PLZ domains of DLG2, DLG3 and DLG4 via its C-terminal TRV domain. It interacts with GRIN2A and GRIN2B via its CUB domains. NETO1 / BTCL1 is involved in the development and/or maintenance of neuronal circuitry. It is an accessory subunit of the neuronal N-methyl-D-aspartate receptor (NMDAR) critical for maintaining the abundance of GRIN2A-containing NMDARs in the postsynaptic density. NETO1 / BTCL1 regulates long-term NMDA receptor-dependent synaptic plasticity and cognition in the context of spatial learning and memory.

Specificity Human NETO1. No cross-reactivity with human cell lysate (293 cell line) in ELISA.

Immunogen Recombinant Human NETO1 Protein

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Isotype	Mouse IgG1
Clone	10B10F5
Applications	Western blot; ELISA
Dilution	Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human NETO1 in WB. Using a DAB detection system, the detection limit for Human NETO1 is approximately 8 ng/lane under non-reducing conditions and 4 ng/lane under reducing conditions. Direct ELISA: This antibody can be used at 0.5-1 µg with the appropriate secondary reagents to detect Human NETO1. The detection limit for Human NETO1 is approximately 0.16 ng/well.
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, human cell-derived, recombinant Human NETO1. The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Format	0.2 µm filtered solution in PBS with 5% trehalose
Storage	This antibody can be stored at 2-8°C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 to -70 °C. Preservative-Free. Sodium azide is recommended to avoid contamination (final concentration 0.05%-0.1%). It is toxic to cells and should be disposed of properly. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	NETO1 neuropilin (NRP) and tolloid (TLL)-like 1 [Homo sapiens]
Official Symbol	NETO1

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Synonyms	NETO1; neuropilin (NRP) and tolloid (TLL)-like 1; neuropilin and tolloid-like protein 1; BCTL1; BTCL1; brain-specific transmembrane protein containing 2 CUB and 1 LDL-receptor class A domains protein 1; FLJ41325;
Gene ID	81832
mRNA Refseq	NM_001201465
Protein Refseq	NP_001188394
MIM	607973
UniProt ID	Q8TDF5
Chromosome Location	18q22.2
Function	receptor activity;

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