

Rabbit Monoclonal Antibody to Human N-acetylated Alpha-Linked Acidic Dipeptidase-Like 1

Cat. No. CAB11584RH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Rabbit Monoclonal Antibody to Human N-acetylated Alpha-Linked Acidic Dipeptidase-Like 1
Species	Human
Source	Rabbit
Antigen Description	N-acetylated-alpha-linked acidic dipeptidase-like protein, also known as NAALADL1, NAALADase L, and Ileal dipeptidylpeptidase, is a Single-pass type I I membrane protein and a member of the peptidase M28 family and M28B subfamily. NAALADase L is mainly expressed in the distal small intestine. It is also expressed in the spleen and testis and Weakly expressed in the brain, locating mainly to the brain stem, amygdala, thalamus and ventral striatum. NAALADase L is a chloride-activated, membrane bound, metallopeptidase that cleaves the endogenous neuropeptide N-acetyl-aspartyl-glutamate (NAAG). NAAG acts as a partial NMDA agonist as well as a full agonist at the presynaptic metabotropic glutamate receptor 3 (mGluR3), where it acts to reduce glutamate release. NAALADase L also exhibits a dipeptidyl-peptidase IV type activity. NAALADase inhibition may be a novel therapeutic approach to reduce or inhibit heightened aggressiveness, and possibly to treat aggressive behavior associated with psychiatric disorders.
Specificity	Human NAALADL1 / NAALADase L. No cross-reactivity with human cell lysate (293 cell line) in WB and ELISA

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Immunogen	Recombinant human NAALADL1 protein
Isotype	Rabbit IgG
Clone	A30
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 NAALADL1 in WB. Using a DAB detection system, the detection limit for human NAALADL1 is approximately 2 ng/lane under non-reducing conditions and reducing conditions Direct ELISA: This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human NAALADL1. The detection limit for human NAALADL1 is approximately 0.00245 ng/well
Preparation	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant human NAALADL1
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	NAALADL1 N-acetylated alpha-linked acidic dipeptidase-like 1 [Homo sapiens]
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Official Symbol	NAALADL1
Synonyms	NAALADL1; N-acetylated alpha-linked acidic dipeptidase-like 1; N-acetylated-alpha-linked acidic dipeptidase-like protein; ileal peptidase I100; NAALADase L; ileal dipeptidylpeptidase; 100 kDa ileum brush border membrane protein; I100; NAALADASEL;
Gene ID	10004
mRNA Refseq	NM_005468
Protein Refseq	NP_005459
MIM	602640
UniProt ID	Q9UQQ1
Chromosome Location	11q12
Function	carboxypeptidase activity; dipeptidase activity; metal ion binding; metallopeptidase activity; peptidase activity;

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