

# 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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<b>Immunogen</b>	Recombinant human NAALADL1 protein
<b>Isotype</b>	Rabbit IgG
<b>Clone</b>	A30
<b>Applications</b>	Western blot; ELISA
<b>Dilution</b>	<p>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</p> <p>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</p>
<b>Preparation</b>	This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant human NAALADL1
<b>Format</b>	0.2 µm filtered solution in PBS with 5% trehalose
<b>Storage</b>	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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<b>Official Symbol</b>	NAALADL1
<b>Synonyms</b>	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;
<b>Gene ID</b>	<a href="#">10004</a>
<b>mRNA Refseq</b>	<a href="#">NM_005468</a>
<b>Protein Refseq</b>	<a href="#">NP_005459</a>
<b>MIM</b>	<a href="#">602640</a>
<b>UniProt ID</b>	<a href="#">Q9UQQ1</a>
<b>Chromosome Location</b>	11q12
<b>Function</b>	carboxypeptidase activity; dipeptidase activity; metal ion binding; metallopeptidase activity; peptidase activity;

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