

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human NAALADase-like 1/NAALADL1 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human (rh) NAALADase I, recombinant mouse NAALADase II, and rhNAALADase II is observed.                                        |
| <b>Source</b>             | Polyclonal Sheep IgG                                                                                                                                                                                                                                                        |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | Chinese hamster ovary cell line CHO-derived recombinant human NAALADase-like 1/NAALADL1<br>Ala32-Leu740<br>Accession # NP_005459                                                                                                                                            |
| <b>Conjugate</b>          | Alexa Fluor 488<br>Excitation Wavelength: 488 nm<br>Emission Wavelength: 515-545 nm                                                                                                                                                                                         |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunoprecipitation</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

NAALADase-like1, also known as NAALADL1, (N-acetylated  $\alpha$ -linked acidic dipeptidase like 1; also Ileal dipeptidylpeptidase) is a 100-115 kDa member of the peptidase M28 family of enzymes. It is found in the brush border of Ileal epithelium and demonstrates serine protease activity. Human NAALADL1 is a type II transmembrane glycoprotein that is 740 amino acids (aa) in length. It contains an extended extracellular domain (aa 29-740) that shows a protease-associated region (aa 109-335) with key catalytic residues at Ser617, Asp657 and His687. Multiple splice variants exist. Two show deletions of aa 161-201 and 296-330, respectively, while a third shows a 51 aa insertion after Pro359. Three show 18 to 42 aa substitutions after Pro502, with premature truncations after Ile522, Thr543 and Leu579. A final isoform shows a 17 aa substitution for aa 619-740. Over aa 32-740, human NAALADL1 shares 81% aa identity with mouse NAALADL1.

#### PRODUCT SPECIFIC NOTICES

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