

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human NAALADase-like 2/NAALADL2 in ELISAs.                                                                                                                                                                                                                          |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>2B</sub> Clone # 817227                                                                                                                                                                                                                           |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | Mouse myeloma cell line NS0-derived recombinant human NAALADase-like 2/NAALADL2<br>Ser152-Asn795<br>Accession # Q58DX5                                                                                                                                                      |
| <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.

**Immunohistochemistry** 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

NAALADL2 (N-acetylated α-linked acidic dipeptidase like 2) is a member of the peptidase M28 family of enzymes. It is presumably a type II transmembrane (TM) protein that may have O-glycosyl hydrolase activity. Human NAALADL2 is 795 amino acids (aa) in length. It is believed to contain a cytoplasmic and TM segment at the N-terminus, followed by a peptidase domain (aa 444-596) and a TIR-like dimerization region (aa 688-777). There are multiple splice forms. One shows a 4 aa substitution for aa 292-795, a second shows an alternate start site at Met18 with a 24 aa substitution for aa 314-795, and a third contains an alternate start site at Met283, accompanied by a deletion of aa 363-411 and 633-795. Over aa 152-795, human NAALADL2 shares 87% and 82% aa sequence identity with mouse and canine NAALADL2, respectively.

#### PRODUCT SPECIFIC NOTICES

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