Human NAALADase-like 1/NAALADL1 Alexa Fluor® 405-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF5467V
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	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.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human NAALADase-like 1/NAALADL1 Ala32-Leu740 Accession # NP_005459
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	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 α-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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