

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human NAALADase-2/NAALAD2 in direct ELISAs. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse NAALADase-2 is observed and no cross-reactivity with recombinant human (rh) PSMA/FOLH1/NAALADase-1, rhNAALADase-like 2, or rh
Source	Monoclonal Mouse IgG _{2B} Clone # 756030
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human NAALADase-2/NAALAD2 Lys32-Leu740 Accession # Q9Y3Q0
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.
Immunohistochemistry	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

N-acetylated-alpha-linked acidic dipeptidase 2 (NAALADase-2), also known as glutamate carboxypeptidase 3 (GCP3), is a 90-100 kDa type 2 transmembrane protein in the M28 peptidase family. It hydrolyzes beta-citrylglutamate (BCG) and N-acetyl-aspartylglutamate (NAAG) which are abundant dipeptides found in brain and testis. Mature human NAALADase-2 consists of a 7 amino acid (aa) cytoplasmic domain, a 24 aa transmembrane segment, and a 709 aa extracellular region (aa 32-740) that contains the peptidase domain. Over aa 32-740, human NAALADase-2 shares 89% aa sequence identity with mouse NAALADase-2.

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