Datasheet for ABIN7599155

anti-NIT2 antibody (AA 1-249)

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Overview

Quantity:	100 µg
Target:	NIT2
Binding Specificity:	AA 1-249
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NIT2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-NIT2 Antibody Picoband®
Immunogen:	E.coli-derived human NIT2 recombinant protein (Position: M1-K249).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-NIT2 Antibody Picoband® (ABIN7599155). Tested in ELISA, IHC, WB, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	NIT2
Alternative Name:	NIT2 (NIT2 Products)
Background:	Synonyms: Troponin T, fast skeletal muscle, TnTf, Beta-TnTF, Fast skeletal muscle troponin T, fTnT, TNNT3 Tissue Specificity: In fetal and adult fast skeletal muscles, with a higher level expression in fetal than in adult muscle. Background: NIT2 belongs to a branch of the nitrilase superfamily of enzymes that cleave carbon-nitrogen bonds. NIT2 functions as an omega-amidase and catalyzes hydrolysis of alpha-ketoglutaramate, forming alpha-ketoglutarate and ammonia. This reaction is also functionally coupled with a subset of transaminases that reaminate the keto acid analogs of some essential amino acids, most particularly methionine and phenylalanine.
Molecular Weight:	33 kDa
Gene ID:	56954

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Asakura, M., Nakano, M., Hayashida, K., Fujii, H., Nakajima, M., Atsuda, K., Itoh, T., Fujiwara, R. Human nitrilase-like protein does not catalyze the hydrolysis of vildagliptin. Drug Metab. Pharmacokinet. 29: 463-469, 2014. 2. Chien, C.-H., Gao, Q.-Z., Cooper, A. J. L., Lyu, J.-H., Sheu, S.-Y. Structural insights into the catalytic active site and activity of human Nit2/omega-amidase: kinetic assay and molecular dynamics simulation. J. Biol. Chem. 287: 25715-25726, 2012. 3. Jaisson, S., Veiga-da-Cunha, M., Van Schaftingen, E. Molecular identification of omega-amidase, the enzyme that is functionally coupled with glutamine transaminases, as the putative tumor suppressor Nit2. Biochimie 91: 1066-1071, 2009.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Handling

Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.