

Datasheet for ABIN7599365
anti-Trnt1 antibody (AA 1-410)



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Overview

Quantity:	100 µg
Target:	Trnt1
Binding Specificity:	AA 1-410
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Trnt1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-TRNT1 Antibody Picoband®
Immunogen:	E.coli-derived human TRNT1 recombinant protein (Position: M1-Q410).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-TRNT1 Antibody Picoband® (ABIN7599365). Tested in ELISA, IHC, WB applications. This antibody reacts with Human. 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:	Trnt1
Alternative Name:	TRNT1 (Trnt1 Products)
Background:	<p>Synonyms: Tricarboxylate transport protein, mitochondrial, Citrate transport protein, CTP, Solute carrier family 25 member 1, Tricarboxylate carrier protein, SLC25A1, SLC20A3</p> <p>Tissue Specificity: Detected in brain. Detected at very much lower levels in heart, lung, placenta and skeletal muscle. Highly expressed in cerebellum, but also found in frontal cortex, hippocampus and basal ganglia.</p> <p>Background: tRNA-nucleotidyltransferase 1, is an enzyme that in humans is encoded by the TRNT1 gene. The protein encoded by this gene is a CCA-adding enzyme which belongs to the tRNA nucleotidyltransferase/poly(A) polymerase family. This essential enzyme functions by catalyzing the addition of the conserved nucleotide triplet CCA to the 3' terminus of tRNA molecules. Mutations in this gene result in sideroblastic anemia with B-cell immunodeficiency, periodic fevers, and developmental delay. Alternative splicing results in multiple transcript variants.</p>
Molecular Weight:	50 kDa
Gene ID:	51095
UniProt:	Q96Q11

Application Details

Application Notes:	<p>Western blot, 0.25-0.5 µg/mL, Human</p> <p>Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>1. Chakraborty, P. K., Schmitz-Abe, K., Kennedy, E. K., Mamady, H., Naas, T., Durie, D., Campagna, D. R., Lau, A., Sendamarai, A. K., Wiseman, D. H., May, A., Jolles, S., and 23 others. Mutations in TRNT1 cause congenital sideroblastic anemia with immunodeficiency, fevers, and developmental delay (SIFD). Blood 124: 2867-2871, 2014. 2. DeLuca, A. P., Whitmore, S. S., Barnes, J., Sharma, T. P., Westfall, T. A., Scott, C. A., Weed, M. C., Wiley, J. S., Wiley, L. A., Johnston, R. M., Schnieders, M. J., Lentz, S. R., Tucker, B. A., Mullins, R. F., Scheetz, T. E., Stone, E. M., Slusarski, D. C. Hypomorphic mutations in TRNT1 cause retinitis pigmentosa with erythrocytic microcytosis. Hum. Molec. Genet. 25: 44-56, 2016. 3. Lizano, E., Schuster, J., Muller, M., Kelso, J., Morl, M. A splice variant of the human CCA-adding enzyme with modified activity. J. Molec. Biol. 366: 1258-1265, 2007.</p>
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
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.