Datasheet for ABIN7602155

anti-Glycogen Synthase 1 antibody (AA 60-640)

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Overview

Quantity:	100 µg
Target:	Glycogen Synthase 1 (GYS1)
Binding Specificity:	AA 60-640
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Glycogen Synthase 1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-Glycogen synthase 1/GYS1 Antibody Picoband®
Immunogen:	E.coli-derived human Glycogen synthase 1/GYS1 recombinant protein (Position: D60-A640).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-Glycogen synthase 1/GYS1 Antibody Picoband® (ABIN7602155). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB 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:	Glycogen Synthase 1 (GYS1)
Alternative Name:	GYS1 (GYS1 Products)
Background:	Synonyms: Rhombotin-2, Cysteine-rich protein TTG-2, LIM domain only protein 2, LMO-2, T-cell translocation protein 2, LMO2, RBTN2, RBTNL1, RHOM2, TTG2 Background: Glycogen synthase (UDP-glucose-glycogen glucosyltransferase) is a key enzyme in glycogenesis, the conversion of glucose into glycogen. The protein encoded by this gene catalyzes the addition of glucose monomers to the growing glycogen molecule through the formation of alpha-1,4-glycoside linkages. Mutations in this gene are associated with muscle glycogen storage disease. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Weight:	84-90 kDa
Gene ID:	2997
UniProt:	P13807
Pathways:	PI3K-Akt Signaling, AMPK Signaling, Cellular Glucan Metabolic Process

Application Details

Application Notes:	Western blot, 0.1-0.25 µg/mL, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human, Mouse Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Browner, M. F., Nakano, K., Bang, A. G., Fletterick, R. J. Human muscle glycogen synthase cDNA sequence: a negatively charged protein with an asymmetric charge distribution. Proc. Nat. Acad. Sci. 86: 1443-1447, 1989. 2. Cameron, J. M., Levandovskiy, V., MacKay, N., Utgikar, R., Ackerley, C., Chiasson, D., Halliday, W., Raiman, J., Robinson, B. H. Identification of a novel mutation in GYS1 (muscle-specific glycogen synthase) resulting in sudden cardiac that, that is diagnosable from skin fibroblasts. Molec. Genet. Metab. 98: 378-382, 2009. 3. Groop, L. C., Kankuri, M., Schalin-Jantti, C., Ekstrand, A., Nikula-Ijas, P., Widen, E., Kuismanen, E., Eriksson, J., Franssila-Kallunki, A., Saloranta, C., Koskimies, S. Association between polymorphism of the glycogen synthase gene and non-insulin-dependent diabetes mellitus. New Eng. J. Med. 328: 10-14, 1993. Note: Erratum: New Eng. J. Med. 328: 1136 only, 1993.
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 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.