

GYG1 Antibody (C-Term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP22264b

Product Information

Application	WB, FC, E
Primary Accession	P46976
Other Accession	Q9R062 , O08730
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB55250
Calculated MW	39384

Additional Information

Gene ID	2992
Other Names	Glycogenin-1, GN-1, GN1, 2.4.1.186, GYG1, GYG
Target/Specificity	This GYG1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 314-347 amino acids from human GYG1.
Dilution	WB~~1:2000 FC~~1:25 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	GYG1 Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GYG1 (HGNC:4699)
Function	Glycogenin participates in the glycogen biosynthetic process along with glycogen synthase and glycogen branching enzyme. It catalyzes the formation of a short alpha (1,4)-glucosyl chain covalently attached via a glucose 1-O-tyrosyl linkage to internal tyrosine residues and these chains act as primers for the elongation reaction catalyzed by glycogen synthase.

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:P13280}. Nucleus {ECO:0000250|UniProtKB:P13280}. Note=Localizes to glycogen granules (glycosomes) in the cytoplasm (By similarity). Cytosolic localization is dependent on the actin cytoskeleton (By similarity) {ECO:0000250|UniProtKB:C4R941, ECO:0000250|UniProtKB:P13280}

Tissue Location

Highly expressed in skeletal muscle and heart, with lower levels in brain, lung, kidney and pancreas

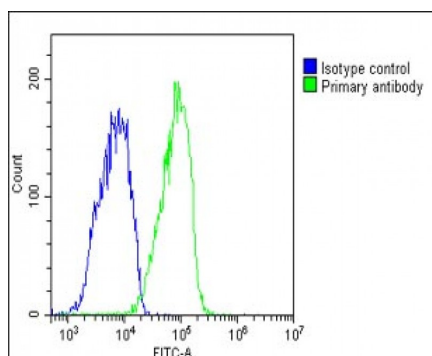
Background

Self-glucosylates, via an inter-subunit mechanism, to form an oligosaccharide primer that serves as substrate for glycogen synthase.

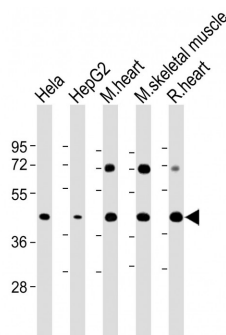
References

Barbetti F.,et al.Biochem. Biophys. Res. Commun. 220:72-77(1996).
Lomako J.,et al.Genomics 33:519-522(1996).
Leffers H.,et al.Submitted (JUN-1994) to the EMBL/GenBank/DDBJ databases.
van Maanen M.-H.,et al.Gene 234:217-226(1999).
Zhai L.,et al.Gene 242:229-235(2000).

Images



Overlay histogram showing HepG2 cells stained with AP22264b(green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22264b, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(1583138) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >10, 000 events was performed.



All lanes : Anti-GYG1 Antibody (C-Term) at 1:2000 dilution
Lane 1: HeLa whole cell lysate Lane 2: HepG2 whole cell lysate Lane 3: Mouse heart lysate Lane 4: Mouse skeletal muscle lysate Lane 5: Rat heart lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 39 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.