

GYG1 Antibody (C-Term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22264b

Specification

GYG1 Antibody (C-Term) - Product Information

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

GYG1 Antibody (C-Term) - 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

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.

GYG1 Antibody (C-Term) - 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

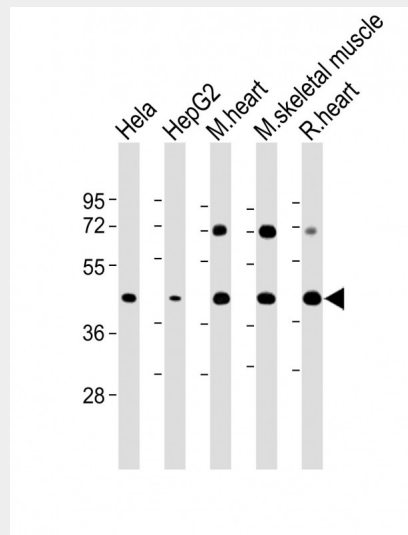
Highly expressed in skeletal muscle and heart, with lower levels in brain, lung, kidney and pancreas

GYG1 Antibody (C-Term) - Protocols

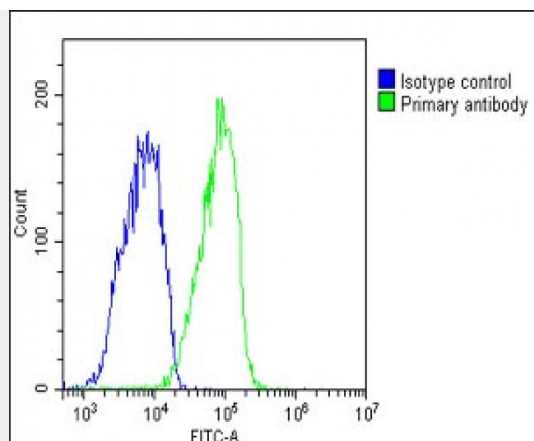
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GYG1 Antibody (C-Term) - Images



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.



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 (1 µg/1x10⁶ cells) used under the same conditions. Acquisition of >10,000 events was performed.

GYG1 Antibody (C-Term) - Background

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

GYG1 Antibody (C-Term) - 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).