

GYG1 Antibody (monoclonal) (M07)

Mouse monoclonal antibody raised against a partial recombinant GYG1. Catalog # AT2302a

Specification

GYG1 Antibody (monoclonal) (M07) - Product Information

Application WB, IHC, E **Primary Accession** P46976 Other Accession NM 004130 Human, Rat Reactivity Host mouse Clonality **Monoclonal** Isotype IgG2a Kappa 39384

Calculated MW

GYG1 Antibody (monoclonal) (M07) - Additional Information

Gene ID 2992

Other Names

Glycogenin-1, GN-1, GN1, GYG1, GYG

Target/Specificity

GYG1 (NP 004121, 1 a.a. ~ 73 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2.

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

GYG1 Antibody (monoclonal) (M07) is for research use only and not for use in diagnostic or therapeutic procedures.

GYG1 Antibody (monoclonal) (M07) - Protocols

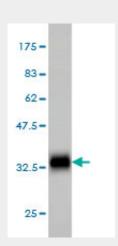
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

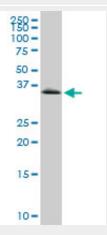


- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

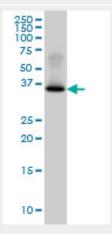
GYG1 Antibody (monoclonal) (M07) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (33.77 KDa) .



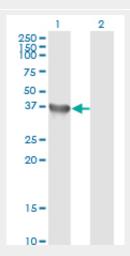
GYG1 monoclonal antibody (M07), clone 3B5. Western Blot analysis of GYG1 expression in PC-12 ((Cat # AT2302a))



GYG1 monoclonal antibody (M07), clone 3B5 Western Blot analysis of GYG1 expression in HepG2



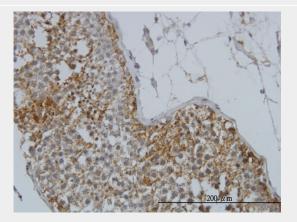
((Cat # AT2302a)



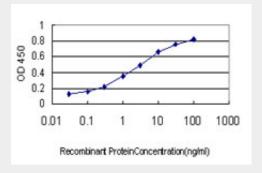
Western Blot analysis of GYG1 expression in transfected 293T cell line by GYG1 monoclonal antibody (M07), clone 3B5.

Lane 1: GYG1 transfected lysate(37.5 KDa).

Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to GYG1 on formalin-fixed paraffin-embedded human testis. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged GYG1 is approximately 0.03ng/ml as a capture antibody.

GYG1 Antibody (monoclonal) (M07) - Background

This gene encodes a member of the glycogenin family. Glycogenin is a glycosyltransferase that catalyzes the formation of a short glucose polymer from uridine diphosphate glucose in an





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autoglucosylation reaction. This reaction is followed by elongation and branching of the polymer, catalyzed by glycogen synthase and branching enzyme, to form glycogen. This gene is expressed in muscle and other tissues. Mutations in this gene result in glycogen storage disease XV. This gene has pseudogenes on chromosomes 1, 8 and 13 respectively. Alternatively spliced transcript variants encoding different isoforms have been identified.

GYG1 Antibody (monoclonal) (M07) - References

1.LC-MS/MS characterization of combined glycogenin-1 and glycogenin-2 enzymatic activities reveals their self-glucosylation preferences. Nilsson J, Halim A, Larsson E, Moslemi AR, Oldfors A, Larson G, Nilsson JBiochim Biophys Acta. 2013 Nov 14;1844(2):398-405. doi: 10.1016/j.bbapap.2013.11.002.2.Dysregulation of multiple facets of glycogen metabolism in a murine model of pompe disease. Taylor KM, Meyers E, Phipps M, Kishnani PS, Cheng SH, Scheule RK, Moreland RJPLoS One. 2013;8(2):e56181. doi: 10.1371/journal.pone.0056181. Epub 2013 Feb 14.3. Molecular pathogenesis of a new glycogenosis caused by a glycogenin-1 mutation. Nilsson J, Halim A, Moslemi AR, Pedersen A, Nilsson J, Larson G, Oldfors A.Biochim Biophys Acta. 2011 Dec 9.