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GYG1 Antibody (monoclonal) (M08)

Mouse monoclonal antibody raised against a partial recombinant GYG1.
Catalog # AT2303a

Specification

GYG1 Antibody (monoclonal) (M08) - Product Information

Application	**WB**
Primary Accession	P46976
Other Accession	NM_004130
Reactivity	**Human, Rat**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**39384**

GYG1 Antibody (monoclonal) (M08) - 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) (M08) is for research use only and not for use in diagnostic or therapeutic procedures.

GYG1 Antibody (monoclonal) (M08) - Protocols

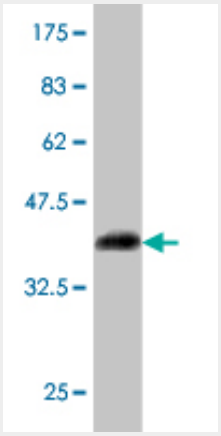
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

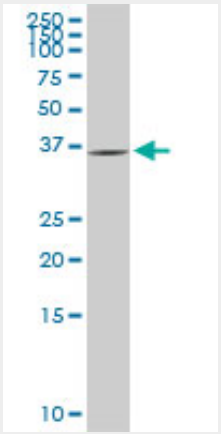
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- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

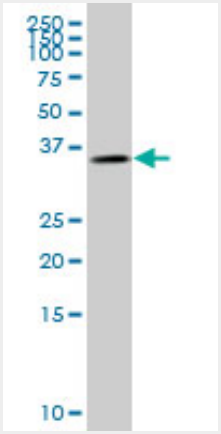
GYG1 Antibody (monoclonal) (M08) - Images



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



GYG1 monoclonal antibody (M08), clone 2C10. Western Blot analysis of GYG1 expression in PC-12 ((Cat # AT2303a)



GYG1 monoclonal antibody (M08), clone 2C10. Western Blot analysis of GYG1 expression in

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HepG2 ((Cat # AT2303a)

GYG1 Antibody (monoclonal) (M08) - 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 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) (M08) - References

Glycogenin-1 deficiency and inactivated priming of glycogen synthesis. Moslemi AR, et al. N Engl J Med, 2010 Apr 1. PMID 20357282.Glycogenin protein and mRNA expression in response to changing glycogen concentration in exercise and recovery. Wilson RJ, et al. Am J Physiol Endocrinol Metab, 2007 Jun. PMID 17311895.Interaction between glycogenin and glycogen synthase. Skurat AV, et al. Arch Biochem Biophys, 2006 Dec 1. PMID 17055998.Towards a proteome-scale map of the human protein-protein interaction network. Rual JF, et al. Nature, 2005 Oct 20. PMID 16189514.Increases in glycogenin and glycogenin mRNA accompany glycogen resynthesis in human skeletal muscle. Shearer J, et al. Am J Physiol Endocrinol Metab, 2005 Sep. PMID 15870102.