

Product Datasheet

Glycogenin 1 Antibody (3B5) - Azide and BSA Free H00002992-M07

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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H00002992-M07

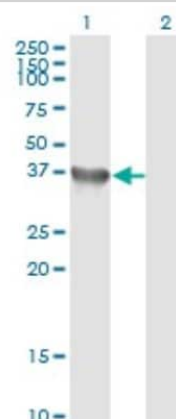
Glycogenin 1 Antibody (3B5) - Azide and BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3B5
Preservative	No Preservative
Isotype	IgG2a Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	2992
Gene Symbol	GYG1
Species	Human, Mouse, Rat
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 28683291).
Specificity/Sensitivity	GYG1 - glycogenin 1
Immunogen	GYG1 (NP_004121, 1 a.a. ~ 73 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MTDQAFVTLTTNDAYAKGALVLGSSLKQHRRTTRRLVVLATPQVSDSMRKVLET VFDEVIMVDVLDSGDSAHLT
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500, ELISA, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen
Application Notes	Antibody reactivity against cell lysate and recombinant protein for WB. It has also been used for IHC-P and ELISA.

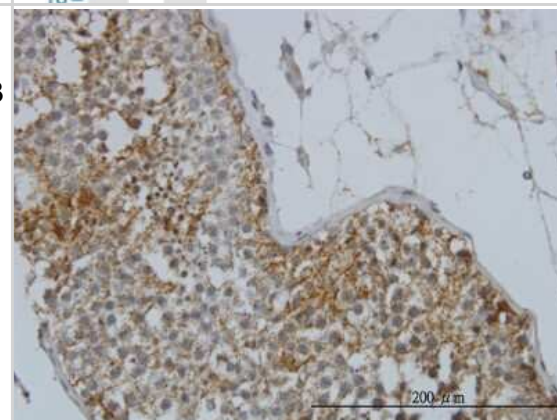


Images

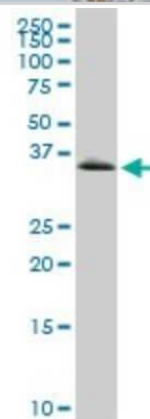
Western Blot: Glycogenin 1 Antibody (3B5) [H00002992-M07] - Analysis of GYG1 expression in transfected 293T cell line by GYG1 monoclonal antibody (M07), clone 3B5. Lane 1: GYG1 transfected lysate (37.5 KDa). Lane 2: Non-transfected lysate.



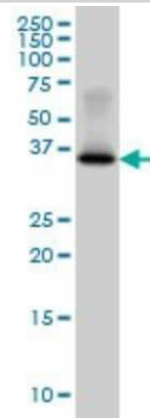
Immunohistochemistry-Paraffin: Glycogenin 1 Antibody (3B5) [H00002992-M07] - Analysis of monoclonal antibody to GYG1 on formalin-fixed paraffin-embedded human testis. Antibody concentration 3 ug/ml



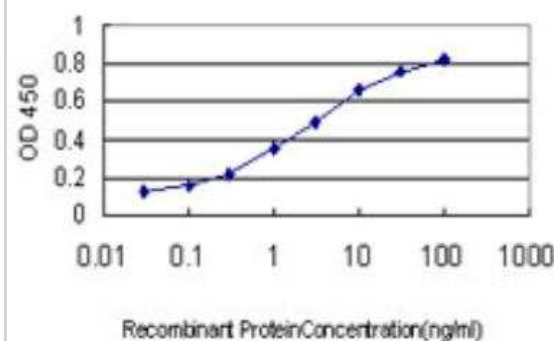
Western Blot: Glycogenin 1 Antibody (3B5) [H00002992-M07] - Analysis of GYG1 expression in PC-12 (Cat # L012V1).



Western Blot: Glycogenin 1 Antibody (3B5) [H00002992-M07] - Analysis of GYG1 expression in HepG2 (Cat # L019V1).



ELISA: Glycogenin 1 Antibody (3B5) [H00002992-M07] - Detection limit for recombinant GST tagged GYG1 is approximately 0.03ng/ml as a capture antibody.



Publications

Carola H, Willem R, Ognian K et al. Functional characterization of GYG1 variants in two patients with myopathy and glycogenin-1 deficiency. *Neuromuscul Disord*. 2019-10-23 [PMID: 31791869]

Visuttijai K, Carola H, Thomsen C et al. Glycogenin is dispensable for glycogen synthesis in human muscle and glycogenin deficiency causes polyglucosan storage. *J Clin Endocrinol Metab*. 2019-10-19 [PMID: 31628455]

Endoh M, Baba M, Endoh T et al. A FLCN-TFE3 Feedback Loop Prevents Excessive Glycogenesis and Phagocyte Activation by Regulating Lysosome Activity. *Cell Rep*. 2020-02-11 [PMID: 32049013]

Ben Yaou R, Hubert A, Nelson I et al. Clinical heterogeneity and phenotype/genotype findings in 5 families with GYG1 deficiency. *Neurol Genet* 2017-12-18 [PMID: 29264399]

Testoni G, Duran J, Garcia-Rocha M et al. Lack of Glycogenin Causes Glycogen Accumulation and Muscle Function Impairment *Cell Metab*. 2017-07-05 [PMID: 28683291] (Mouse)

Hedberg-Oldfors C, Glamuzina E, Ruygrok P et al. Cardiomyopathy as presenting sign of glycogenin-1 deficiency-report of three cases and review of the literature. *J Inherit Metab Dis* 2016-10-07 [PMID: 27718144]

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Nilsson J, Halim A, Moslemi AR et al. Molecular pathogenesis of a new glycogenosis caused by a glycogenin-1 mutation. *Biochim Biophys Acta*. 2011-12-09 [PMID: 22198226]

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Taylor KM, Meyers E, Phipps M et al. Dysregulation of multiple facets of glycogen metabolism in a murine model of Pompe disease. *PLoS One*. 2013-01-01 [PMID: 23457523]

Shinozaki S, Choi CS, Shimizu N et al. Liver-specific iNOS expression is sufficient to cause hepatic insulin resistance and mild hyperglycemia in mice. *J Biol Chem*. 2011-08-16 [PMID: 21846719]



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to H00002992-M07

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NBP1-30179	Recombinant Human Glycogenin 1 His-T7 Protein

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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