

Product Datasheet

Glucose 6 Phosphate Dehydrogenase Antibody (2H7) - BSA Free NBP2-22125

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

www.novusbio.com



technical@novusbio.com

Reviews: 1 Publications: 3

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP2-22125

Updated 9/9/2025 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NBP2-22125



NBP2-22125**Glucose 6 Phosphate Dehydrogenase Antibody (2H7) - BSA Free**

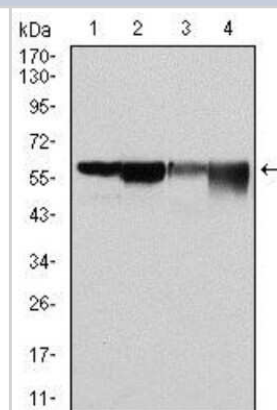
Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	2H7
Preservative	0.03% Sodium Azide
Isotype	IgG1
Purity	Ammonium sulfate precipitation
Buffer	PBS
Target Molecular Weight	59 kDa

Product Description	
Description	Novus Biologicals Mouse Glucose 6 Phosphate Dehydrogenase Antibody (2H7) - BSA Free (NBP2-22125) is a monoclonal antibody validated for use in IHC, WB, ELISA, Flow and Simple Western. Anti-Glucose 6 Phosphate Dehydrogenase Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	2539
Gene Symbol	G6PD
Species	Human
Marker	Cytosol Marker
Immunogen	Purified recombinant fragment of human Glucose 6 Phosphate Dehydrogenase expressed in E. coli. [Uniprot: P11413]

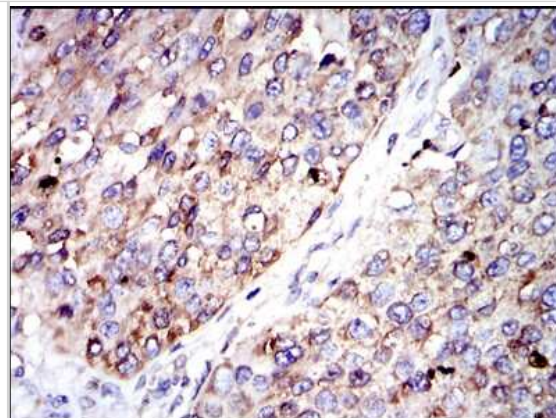
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500-1:1000, Simple Western 1:50, Flow Cytometry 1:200-1:400, ELISA 1:10000, Immunohistochemistry, Immunohistochemistry-Paraffin 1:200-1:1000

Images

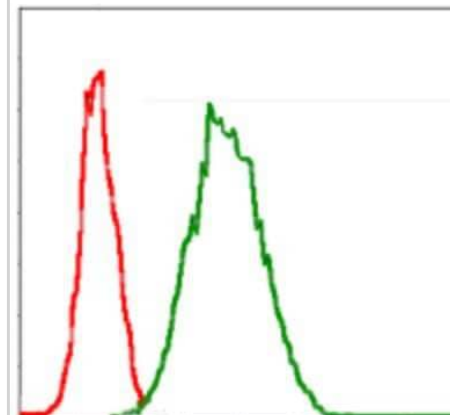
Western Blot: Glucose 6 Phosphate Dehydrogenase Antibody (2H7) [NBP2-22125] - Analysis using Glucose 6 Phosphate Dehydrogenase mouse mAb against Hela (1), MCF-7 (2), Jurkat (3) and K562 (4) cell lysates.



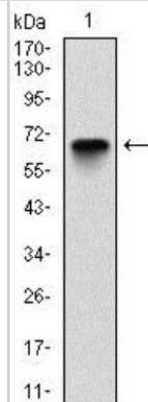
Immunohistochemistry-Paraffin: Glucose 6 Phosphate Dehydrogenase Antibody (2H7) [NBP2-22125] - Analysis of paraffin-embedded kidney cancer tissues using Glucose 6 Phosphate Dehydrogenase mouse mAb with DAB staining.



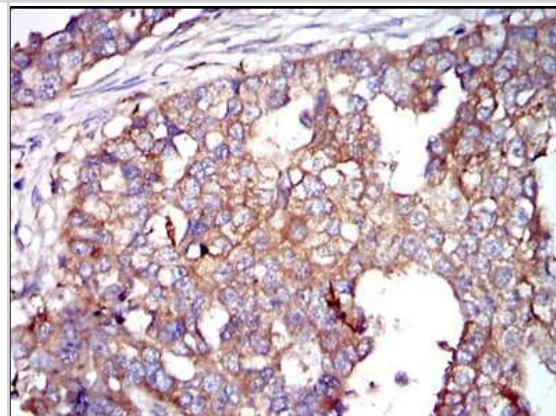
Flow Cytometry: Glucose 6 Phosphate Dehydrogenase Antibody (2H7) [NBP2-22125] - Analysis of Jurkat cells using Glucose 6 Phosphate Dehydrogenase mouse mAb (green) and negative control (red).



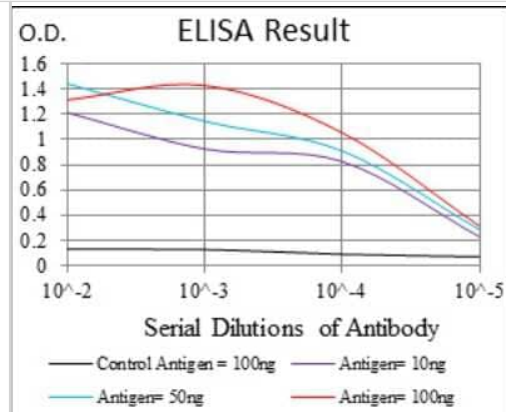
Western Blot: Glucose 6 Phosphate Dehydrogenase Antibody (2H7) [NBP2-22125] - Analysis using Glucose 6 Phosphate Dehydrogenase mAb against human Glucose 6 Phosphate Dehydrogenase (AA: 275-515) recombinant protein. (Expected MW is 53.1 kDa)



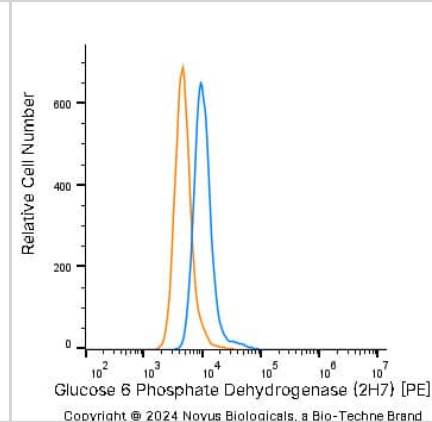
Immunohistochemistry-Paraffin: Glucose 6 Phosphate Dehydrogenase Antibody (2H7) [NBP2-22125] - Analysis of paraffin-embedded breast cancer tissues using Glucose 6 Phosphate Dehydrogenase mouse mAb with DAB staining.



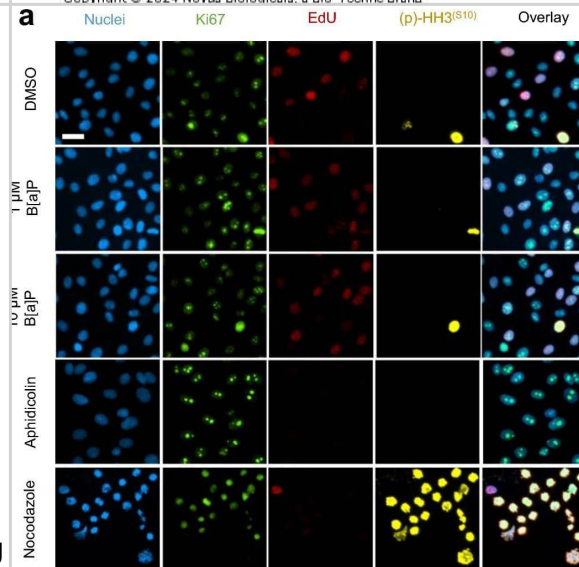
ELISA: Glucose 6 Phosphate Dehydrogenase Antibody (2H7) [NBP2-22125] - Red: Control Antigen (100ng), Purple: Antigen (10ng), Green: Antigen (50ng), Blue: Antigen (100ng).



A431 human skin carcinoma cell line was stained with Mouse anti-Glucose 6 Phosphate Dehydrogenase Protein-G purified Monoclonal Antibody conjugated to Phycoerythrin (Catalog # NBP2-22125PE, blue histogram) or matched control antibody (Catalog # NBP2-27231PE, orange histogram).



Simple Western: Glucose 6 Phosphate Dehydrogenase Antibody (2H7) - BSA Free [NBP2-22125] - B[a]P-Induced Changes in Cell Cycle. (a) Beas-2B cells treated with 1 μ M or 10 μ M B[a]P (24 h), 3 μ g/mL aphidicolin (18 h), & 100 ng/mL nocodazole (18 h) were prepared for cell imaging post-treatment & immunofluorescent staining. A reference cell cycle diagram is shown. The categorization schematic applied to immunofluorescent images is presented as well as a reference diagram of mammalian cell cycle. Scale bar = 25 μ m. (b) Beas-2B cells treated with B[a]P were assessed for WST1 metabolism. $n = 5$. (c) Quantitative EdU uptake among EdU + Beas-2B cells treated with B[a]P. $n = 4$. (d) Cumulative cell cycle phase distributions of Beas-2B cells treated with B[a]P or cell cycle controls are presented. $n = 4$, except nocodazole-treated Beas-2B for which $n = 2$. (e) Magnitude changes compared to untreated controls among each categorical cell cycle phase are presented; bar colors coincide with phase designations presented in (d). $n = 4$, except nocodazole-treated Beas-2B for which $n = 2$. Positive changes denote increased percentage of cells in a specific phase among treated cells, whilst negative values denote decreased percentage. Endpoints are the arithmetic mean of listed independent experiments with error bars denoting one standard error of the mean. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/37217524>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Coyle J, Johnson C, Jensen J et al. Variation in Pentose Phosphate Pathway-associated Metabolism Dictates Cytotoxicity Outcomes Determined by Tetrazolium Reduction Assays Research Square 2023-02-13 [PMID: 37217524] (Simple Western, Human)

Mele L, la Noce M, Paino F, et al. Glucose-6-phosphate dehydrogenase blockade potentiates tyrosine kinase inhibitor effect on breast cancer cells through autophagy perturbation. J Exp Clin Cancer Res. 2019-04-12 [PMID: 30987650] (WB, Human)

Mele L, Paino F, Papaccio F, et al. A new inhibitor of glucose-6-phosphate dehydrogenase blocks pentose phosphate pathway and suppresses malignant proliferation and metastasis in vivo. Cell Death Dis. 2018-05-14 [PMID: 29760380] (WB, Human)





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 NBP2-22125

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP2-22125

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

