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.

Reviews: 1 Publications: 3

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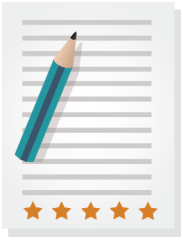
www.novusbio.com/NBP2-22125

Updated 4/13/2025 v.20.1



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

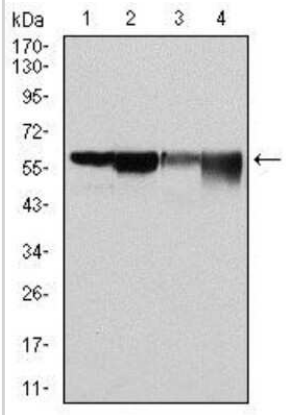
Host	Mouse
Gene ID	2539
Gene Symbol	G6PD
Species	Human
Marker	Cytosol Marker
Immunogen	Purified recombinant fragment of human Glucose 6 Phosphate Dehydrogenase expressed in E. coli. [Uniprot: P11413]

Product Application Details

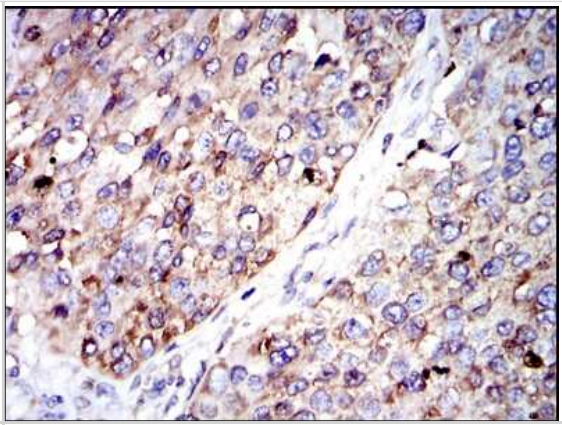
Applications	Western Blot, Simple Western, ELISA, Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500-1:1000, Simple Western 1:50, Flow Cytometry 1:200-1:400, ELISA 1:10000, Immunohistochemistry, Immunohistochemistry-Paraffin 1:200-1:1000

Images

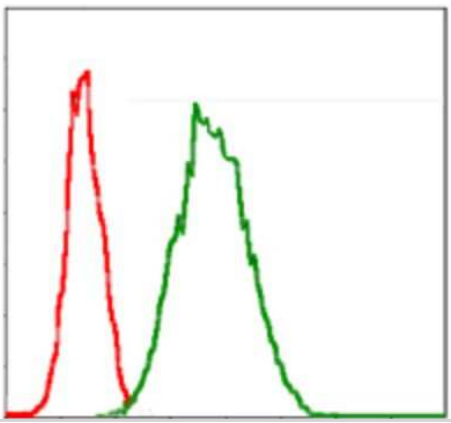
Western Blot: Glucose 6 Phosphate Dehydrogenase Antibody (2H7) [NBP2-22125] - Analysis using Glucose 6 Phosphate Dehydrogenase mouse mAb against Hela (1), MCF-7 (2), Jurkat (3) and K562 (4) cell lysates.



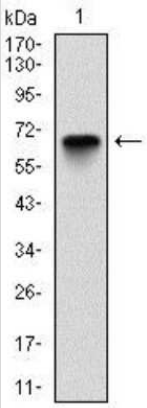
Immunohistochemistry-Paraffin: Glucose 6 Phosphate Dehydrogenase Antibody (2H7) [NBP2-22125] - Analysis of paraffin-embedded kidney cancer tissues using Glucose 6 Phosphate Dehydrogenase mouse mAb with DAB staining.



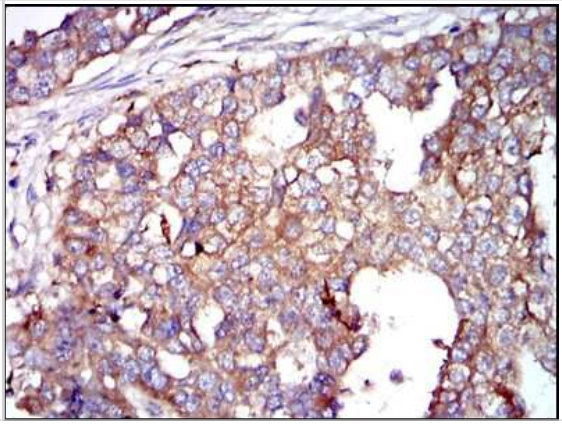
Flow Cytometry: Glucose 6 Phosphate Dehydrogenase Antibody (2H7) [NBP2-22125] - Analysis of Jurkat cells using Glucose 6 Phosphate Dehydrogenase mouse mAb (green) and negative control (red).



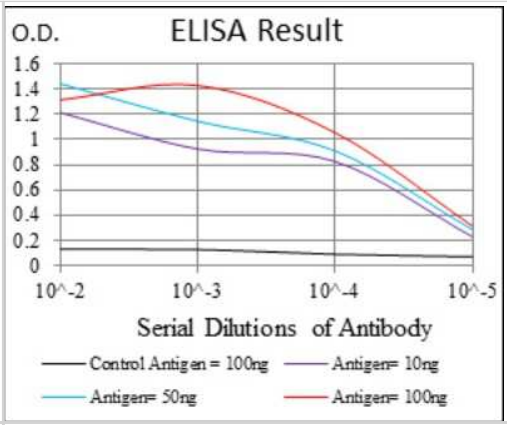
Western Blot: Glucose 6 Phosphate Dehydrogenase Antibody (2H7) [NBP2-22125] - Analysis using Glucose 6 Phosphate Dehydrogenase mAb against human Glucose 6 Phosphate Dehydrogenase (AA: 275-515) recombinant protein. (Expected MW is 53.1 kDa)



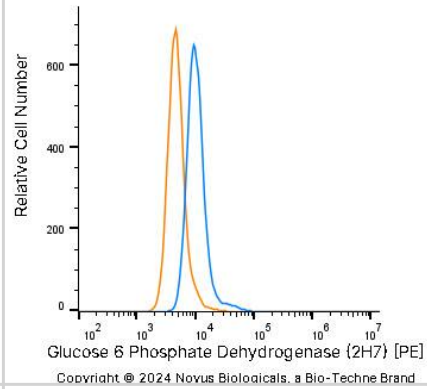
Immunohistochemistry-Paraffin: Glucose 6 Phosphate Dehydrogenase Antibody (2H7) [NBP2-22125] - Analysis of paraffin-embedded breast cancer tissues using Glucose 6 Phosphate Dehydrogenase mouse mAb with DAB staining.



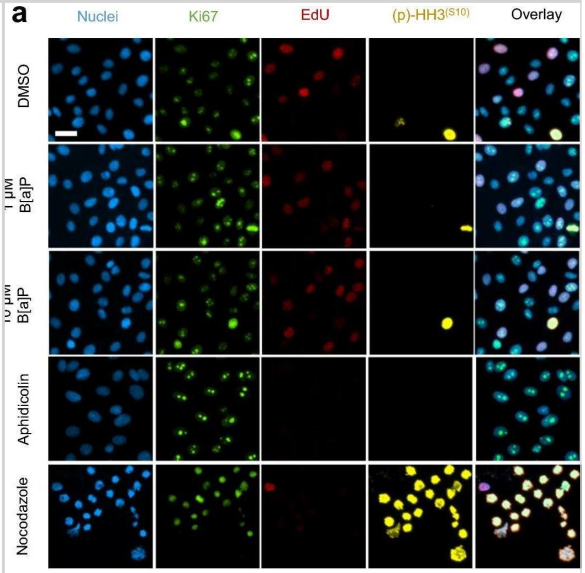
ELISA: Glucose 6 Phosphate Dehydrogenase Antibody (2H7) [NBP2-22125] - Red: Control Antigen (100ng), Purple: Antigen (10ng), Green: Antigen (50ng), Blue: Antigen (100ng).



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 µM or 10 µM B[a]P (24 h), 3 µg/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 µm. (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)

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Products Related to NBP2-22125

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBC1-19064	Recombinant E. coli Glucose 6 Phosphate Dehydrogenase Protein

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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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