

Product Datasheet

Hexokinase 2 Antibody (3D3)

NBP1-51643

Unit Size: 0.1 ml

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

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Publications: 4

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NBP1-51643**Hexokinase 2 Antibody (3D3)**

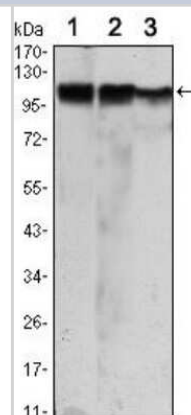
Product Information	
Unit Size	0.1 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3D3
Preservative	0.03% Sodium Azide
Isotype	IgG1
Purity	Unpurified
Buffer	Ascites
Target Molecular Weight	102 kDa

Product Description	
Description	Novus Biologicals Mouse Hexokinase 2 Antibody (3D3) (NBP1-51643) is a monoclonal antibody validated for use in IHC, WB, ELISA and Flow. Anti-Hexokinase 2 Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	3099
Gene Symbol	HK2
Species	Human, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 29137232)..
Immunogen	Purified recombinant fragment of human Hexokinase 2 expressed in E. Coli.

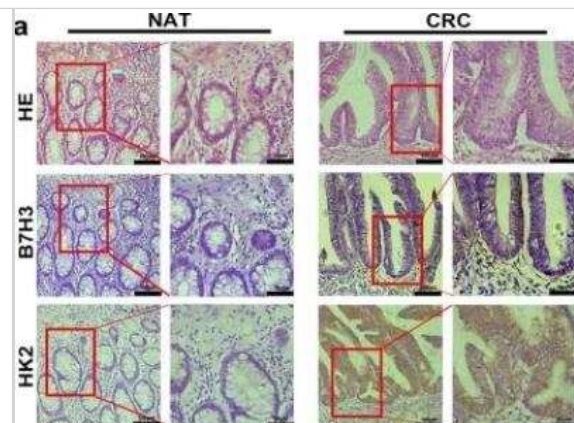
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow Cytometry, Immunohistochemistry, Knockdown Validated
Recommended Dilutions	Western Blot 1:500 - 1:2000, Flow Cytometry 1:200 - 1:400, ELISA 1:10000, Immunohistochemistry 1:200 - 1:1000, Immunohistochemistry-Paraffin 1:200 - 1:1000, Knockdown Validated

Images

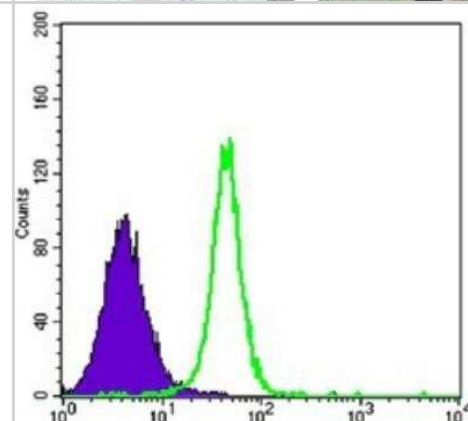
Western Blot: Hexokinase 2 Antibody (3D3) [NBP1-51643] - Analysis using HK2 mouse mAb against Jurkat (1), Hela (2) and HEK293 (3) cell lysate.



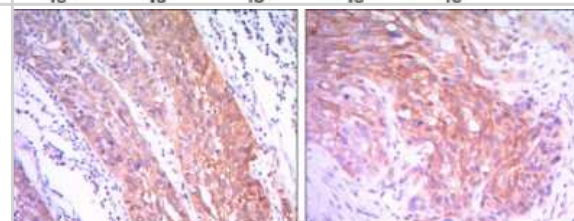
Immunohistochemistry: Hexokinase 2 Antibody (3D3) [NBP1-51643] - Images of IHC analysis of B7-H3 and HK2 protein expression and hematoxylin and eosin (H&E) staining of CRC (n=126) tissue sections. One representative image is shown. Image collected and cropped by CiteAb from the following publication (nature.com/articles/s41419-019-1549-6), licensed under a CC-BY license.



Flow Cytometry: Hexokinase 2 Antibody (3D3) [NBP1-51643] - Analysis of K562 cells using HK2 mouse mAb (green) and negative control (purple).



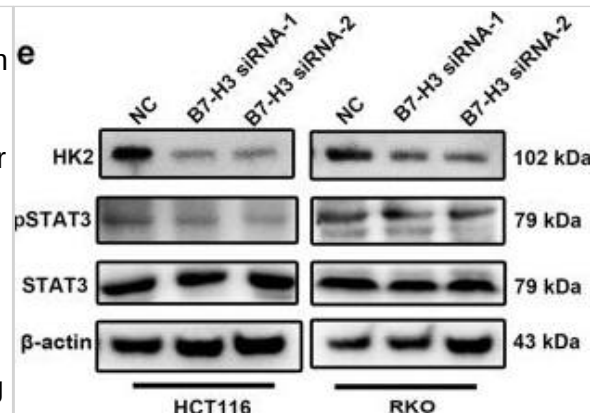
Immunohistochemistry-Paraffin: Hexokinase 2 Antibody (3D3) [NBP1-51643] - Analysis of esophagus cancer tissues (left) and human lung cancer (right) using HK2 mouse mAb with DAB staining.



Western Blot: Hexokinase 2 Antibody (3D3) - BSA Free [NBP1-51643] - B7-H3 regulated glycolysis through HK2. a The protein level of HK2 in B7-H3-overexpressing HCT116 or RKO cells after transfection with siRNA negative control (NC) or HK2 siRNA transfection were analyzed by western blot. β -actin served as a loading control. b, c Glucose consumption (b) & lactate production (c) were measured in B7-H3-overexpressing HCT116 or RKO cells transfected with NC or HK2 siRNA. d, e Glucose consumption (d) & lactate production (e) were measured in B7-H3-overexpressing HCT116 or RKO cells treated with PBS or 2-DG. Values are expressed as means (SEMs). Five samples were analyzed per condition, & the experiments were performed in triplicate. * $P < 0.05$ Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30952834>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: Hexokinase 2 Antibody (3D3) - BSA Free [NBP1-51643] - B7-H3 promoted the expression of HK2 in CRC cells. a, b The expression of glycolysis-related genes was detected by RT-qPCR in both B7-H3-overexpressing HCT116 (a) & RKO (b) cells. c, d The mRNA level of HK2 was detected by RT-qPCR in both HCT116 (c) & RKO (d) cells after transfection with siRNA NC, B7-H3 siRNA-1 or B7-H3 siRNA-2. e HK2 protein level & STAT3 activation (examined by the p-STAT3 expression level) were detected by western blot in both HCT116 & RKO cells after transfection with NC, B7-H3 siRNA-1 or B7-H3 siRNA-2. β -actin served as a loading control. f HK2 protein level & STAT3 activation (examined by the p-STAT3 expression level) were detected by western blot in both B7-H3-overexpressing HCT116 & RKO cells. β -actin served as a loading control. g Schematic representation of the proposed B7-H3/STAT3/HK2 axis. Values are expressed as means (SEMs). Five samples were analyzed per condition, & the experiments were performed in triplicate. * $P < 0.05$ Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30952834>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Fong LY, Huebner K, Jing R et al. Zinc treatment reverses and anti-Zn-regulated miRs suppress esophageal carcinomas in vivo Proceedings of the National Academy of Sciences of the United States of America 2023-05-16 [PMID: 37155893]

Shi, T;Ma, Y;Cao, L;Zhan, S;Xu, Y;Fu, F;Liu, C;Zhang, G;Wang, Z;Wang, R;Lu, H;Lu, B;Chen, W;Zhang, X; B7-H3 promotes aerobic glycolysis and chemoresistance in colorectal cancer cells by regulating HK2 Cell Death Dis 2019-04-05 [PMID: 30952834] (WB, Human)

Hao Y, Kacal M, Ouchida AT et al. Targetome analysis of chaperone-mediated autophagy in cancer cells Autophagy 2019-03-01 [PMID: 30821613] (WB, Human)

Fong LY, Jing R, Smalley KJ et al. Integration of metabolomics, transcriptomics, and microRNA expression profiling reveals a miR-143-HK2-glucose network underlying zinc-deficiency-associated esophageal neoplasia Oncotarget. 2017-10-10 [PMID: 29137232] (IHC-P, Rat)



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Products Related to NBP1-51643

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)
NBP3-21294PEP	Hexokinase 2 Recombinant Protein Antigen

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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