

# Product Datasheet

## Hexokinase 2 Antibody (OTI4C5)

### NBP2-02272

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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#### Publications: 6

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**NBP2-02272**

Hexokinase 2 Antibody (OTI4C5)

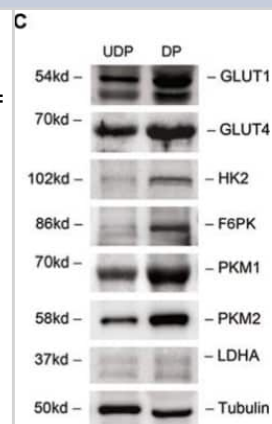
Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	OTI4C5
Preservative	0.02% Sodium Azide
Isotype	IgG1
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.3), 1.0% BSA and 50% Glycerol
Target Molecular Weight	102.4 kDa

Product Description	
Host	Mouse
Gene ID	3099
Gene Symbol	HK2
Species	Human, Mouse, Rat, Canine
Reactivity Notes	Use in Mouse reported in scientific publication (PMID: 32393782). Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
Specificity/Sensitivity	Human Hexokinase-2 protein is 74% identical with Hexokinase-1 and our Hexokinase 2 antibody (clone 4C5) is not expected to crossreact with Hexokinase-1.
Immunogen	Full length human recombinant protein of human HK2 (NP_000180) produced in HEK293T cell.

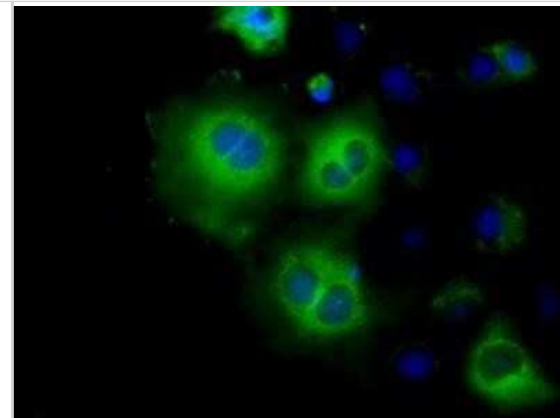
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1:1000, Flow Cytometry 1:100, Immunocytochemistry/ Immunofluorescence 1:100

**Images**

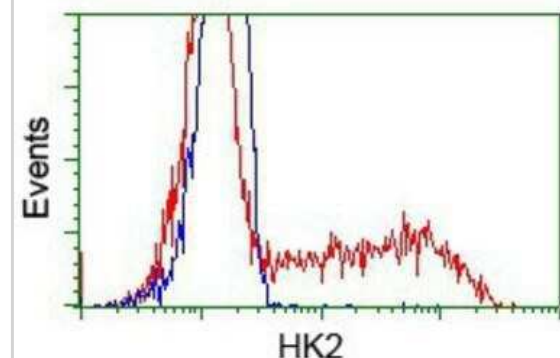
Western Blot: Hexokinase 2 Antibody (OTI4C5) [NBP2-02272] - Glycolysis-related genes and proteins were upregulated in differentiated podocytes. Representative blot images of glycolysis-related proteins (n = 3) (GLUT4 - NBP1-49533; HK2/Hexokinase 2 - NBP2-02272). Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41419-020-2481-5>), licensed under a CC-BY license.



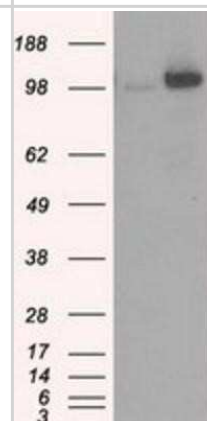
Immunocytochemistry/Immunofluorescence: Hexokinase 2 Antibody (OTI4C5) [NBP2-02272] - Staining of COS7 cells transiently transfected by pCMV6-ENTRY Hexokinase 2.



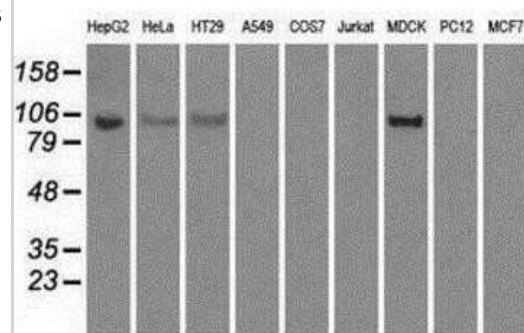
Flow Cytometry: Hexokinase 2 Antibody (OTI4C5) [NBP2-02272] - HEK293T cells transfected with either pCMV6-ENTRY Hexokinase 2. (Red) or empty vector control plasmid (Blue) were immunostained with anti-Hexokinase 2 mouse monoclonal, and then analyzed by flow cytometry.



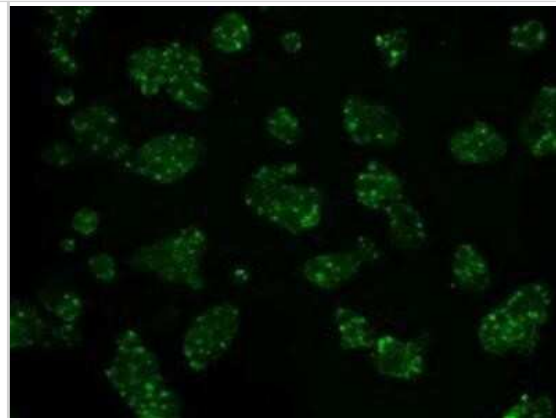
Western Blot: Hexokinase 2 Antibody (OTI4C5) [NBP2-02272] - HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY Hexokinase 2 (Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-Hexokinase 2.



Western Blot: Hexokinase 2 Antibody (OTI4C5) [NBP2-02272] - Analysis of extracts (35ug) from 9 different cell lines by using anti-Hexokinase 2 monoclonal antibody.



Immunocytochemistry/Immunofluorescence: Hexokinase 2 Antibody (OTI4C5) [NBP2-02272] - Staining of HepG2 cells using anti-Hexokinase 2 mouse monoclonal antibody.



## Publications

Wang Y, Kuang Z, Xing X et al. Proximal tubular FHL2, a novel downstream target of hypoxia inducible factor 1, is a protector against ischemic acute kidney injury Cell Mol Life Sci 2024-05-30 [PMID: 38814462]

Weber-Stiehl S, Taubenheim J, Jörke L et al. Hexokinase 2 expression in apical enterocytes correlates with inflammation severity in patients with inflammatory bowel disease. BMC medicine 2024-10-24 [PMID: 39444028]

Finn Hinrichsen, Jacob Hamm, Magdalena Westermann, Lena Schröder, Kensuke Shima, Neha Mishra, Alesia Walker, Nina Sommer, Kenneth Klischies, Daniela Prasse, Johannes Zimmermann, Sina Kaiser, Dora Bordoni, Antonella Fazio, Georgios Marinos, Georg Laue, Simon Imm, Valentina Tremaroli, Marijana Basic, Robert Häsler, Ruth A Schmitz, Stefan Krautwald, Andrea Wolf, Bärbel Stecher, Philippe Schmitt-Kopplin, Christoph Kaleta, Jan Rupp, Fredrik Bäckhed, Philip Rosenstiel, Felix Sommer Microbial regulation of hexokinase 2 links mitochondrial metabolism and cell death in colitis. Cell metabolism 2022-04-07 [PMID: 34847376]

Vidoni C, Ferraresi A, Vallino L et al. Glycolysis Inhibition of Autophagy Drives Malignancy in Ovarian Cancer: Exacerbation by IL-6 and Attenuation by Resveratrol International Journal of Molecular Sciences 2023-01-15 [PMID: 36675246] (Western Blot, Immunocytochemistry/ Immunofluorescence)

Chen C, Zhou Y, Ning X et al. Directly targeting ASC by Ionidamine alleviates inflammasome-driven diseases Journal of neuroinflammation 2022-12-28 [PMID: 36577999] (WB, Mouse)

Yuan Q, Miao J, Yang Q et al. Role of pyruvate kinase M2-mediated metabolic reprogramming during podocyte differentiation Cell Death Dis 2020-05-11 [PMID: 32393782] (WB, Mouse)



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### **Products Related to NBP2-02272**

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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