

Product Datasheet

6 Phosphofructo 2 Kinase Antibody (3F3) - Azide and BSA Free H00005209-M08

Unit Size: 0.1 mg

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

www.novusbio.com



technical@novusbio.com

Reviews: 1 Publications: 16

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/H00005209-M08

Updated 2/21/2025 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/H00005209-M08

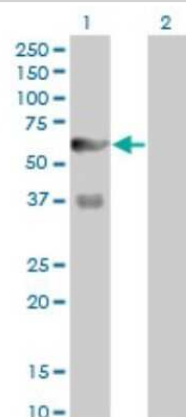


H00005209-M08**6 Phosphofructo 2 Kinase Antibody (3F3) - Azide and BSA Free**

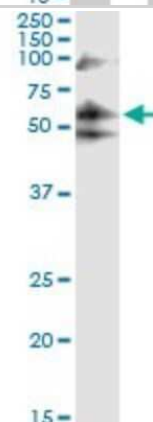
Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3F3
Preservative	No Preservative
Isotype	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	5209
Gene Symbol	PFKFB3
Species	Human, Mouse, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 22421967). Mouse reactivity reported in scientific literature (PMID: 24169697).
Specificity/Sensitivity	PFKFB3 - 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3 (3F3)
Immunogen	PFKFB3 (NP_004557, 412 a.a. ~ 520 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. CPLHTVLKLTTPVAYGCRVESIYLNVESVCTHRERSEDAKKGPNPLMRRNSVTP LASPEPTKKPRINSFEEHVASTSAALPSCLPPEVPTQLPGQNMKGSRSSADSS RKH
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500, ELISA, Immunoprecipitation 1:10-1:500
Application Notes	Antibody reactivity against Recombinant Protein with GST tag on ELISA and WB. GST tag alone is used as a negative control.

Images

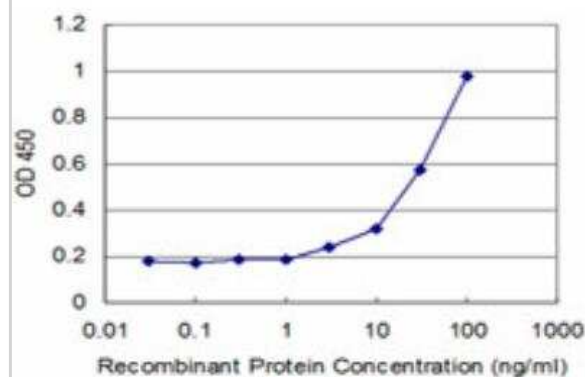
Western Blot: 6 Phosphofructo 2 Kinase Antibody (3F3) [H00005209-M08] - Analysis of PFKFB3 expression in transfected 293T cell line by PFKFB3 monoclonal antibody (M08), clone 3F3. Lane 1: PFKFB3 transfected lysate (59.6 KDa). Lane 2: Non-transfected lysate.



Western Blot: 6 Phosphofructo 2 Kinase Antibody (3F3) [H00005209-M08] - Analysis of PFKFB3 transfected lysate using anti-PFKFB3 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with PFKFB3 rabbit polyclonal antibody.



ELISA: 6 Phosphofructo 2 Kinase Antibody (3F3) [H00005209-M08] - Detection limit for recombinant GST tagged PFKFB3 is approximately 3ng/ml as a capture antibody.



Publications

Daniel Jimenez-Blasco, Jesús Agulla, Rebeca Lapresa, Marina Garcia-Macia, Veronica Bobo-Jimenez, Dario Garcia-Rodriguez, Israel Manjarres-Raza, Emilio Fernandez, Yannick Jeanson, Spiro Khoury, Jean-Charles Portais, Daniel Padro, Pedro Ramos-Cabrer, Peter Carmeliet, Angeles Almeida, Juan P Bolaños Weak neuronal glycolysis sustains cognition and organismal fitness. *Nature metabolism* 2024-05-24 [PMID: 38789798]

Jimenez-Blasco D, Agulla J, Lapresa R et al. Weak neuronal glycolysis sustains cognition and organismal fitness *bioRxiv* 2023-09-04 (WB, IHC, Mouse)

Emmanuel C, Benjamin B, Pierre M et al. Differential role of neuronal glucose and PFKFB3 in memory formation during development. *Glia*. 2022-08-02 [PMID: 35916383]

Lopez-Fabuel I, Garcia-Macia M, Buondelmonte C et al. Aberrant upregulation of the glycolytic enzyme PFKFB3 in CLN7 neuronal ceroid lipofuscinosis *Nature communications* 2022-01-27 [PMID: 35087090] (WB, Mouse)

Burmistrova O, Olias-Arjona A, Lapresa R et al. Targeting PFKFB3 alleviates cerebral ischemia-reperfusion injury in mice *Sci Rep* 2019-08-12 [PMID: 31406177] (WB, Mouse)

Rodriguez C, Sanchez-Morán I, Alvarez S et al. A novel human Cdh1 mutation impairs anaphase promoting complex/cyclosome (APC/C) activity resulting in microcephaly, psychomotor retardation and epilepsy *J. Neurochem.* 2019-07-18 [PMID: 31318984] (WB, Human)

Desideri E, Vegliante R, Cardaci S et al. MAPK14/p38alpha-dependent modulation of glucose metabolism affects ROS levels and autophagy during starvation. *Autophagy* 2014-09-01 [PMID: 25046111] (WB)

Ohmura M, Hishiki T, Yamamoto T et al. Impacts of CD44 knockdown in cancer cells on tumor and host metabolic systems revealed by quantitative imaging mass spectrometry. *Nitric Oxide*. 2014-01-01 [PMID: 25461272]

Bao Y, Mukai K, Hishiki T et al. Energy management by enhanced glycolysis in G1-phase in human colon cancer cells in vitro and in vivo. *Mol Cancer Res*. 2013-09-01 [PMID: 23741060] (WB, Human)

Yamamoto Takehiro, Takano Naoharu, Ishiwata Kyoko et al. Reduced methylation of PFKFB3 in cancer cells shunts glucose towards the pentose phosphate pathway. *Nat Commun*. 2014-03-17 [PMID: 24633012] (WB, Human)

Cordero-Espinoza L, Hagen T. Increased concentrations of Fructose-2,6-bisphosphate contribute to the Warburg effect in PTEN-deficient cells. *J Biol Chem*. 2013-10-29 [PMID: 24169697] (WB, Mouse)

Almeida A, Bolanos JP, Moncada Set. E3 ubiquitin ligase APC/C-Cdh1 accounts for the Warburg effect by linking glycolysis to cell proliferation. *Proc Natl Acad Sci U S A* 2010-01-12 [PMID: 20080744] (WB, Human)

More publications at <http://www.novusbio.com/H00005209-M08>



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 H00005209-M08

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)
NBP2-55403PEP	6 Phosphofructo 2 Kinase 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.

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/H00005209-M08

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

