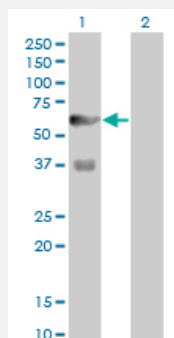


PFKFB3 monoclonal antibody (M08), clone 3F3

Catalog # H00005209-M08

Size 100 ug

Applications

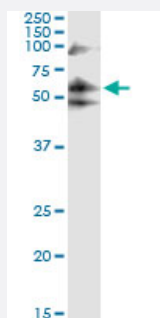


Western Blot (Transfected lysate)

Western Blot analysis of PFKFB3 expression in transfected 293T cell line by PFKFB3 monoclonal antibody (M08), clone 3F3.

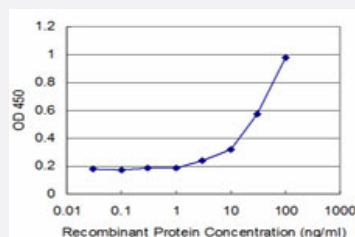
Lane 1: PFKFB3 transfected lysate(59.6 KDa).

Lane 2: Non-transfected lysate.



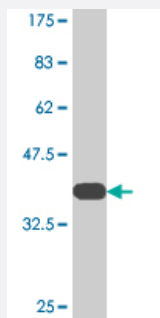
Immunoprecipitation

Immunoprecipitation of PFKFB3 transfected lysate using anti-PFKFB3 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with PFKFB3 MaxPab rabbit polyclonal antibody.



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PFKFB3 is approximately 3ng/ml as a capture antibody.



Western Blot detection against Immunogen (37.73 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant PFKFB3.
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.
Sequence	CPLHTVLKLTVPVAYGCRVESYLNVESVCTHRERSEDAKKGNPLMRRNSVTPLASPEPTKKPRINSFEEHVASTSAALPSCLPPEVPTQLPGQNMKGSRSSADSSRKH
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (95); Rat (74)
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.73 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

● Western Blot (Transfected lysate)

Western Blot 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.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunoprecipitation

Immunoprecipitation of PFKFB3 transfected lysate using anti-PFKFB3 monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with PFKFB3 MaxPab rabbit polyclonal antibody.

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PFKFB3 is approximately 3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — PFKFB3

Entrez GeneID	5209
GeneBank Accession#	NM_004566
Protein Accession#	NP_004557
Gene Name	PFKFB3
Gene Alias	IPFK2, PFK2
Gene Description	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3
Omim ID	605319
Gene Ontology	Hyperlink
Gene Summary	O
Other Designations	6-phosphofructo-2-kinase/ fructose-2,6-bisphosphatase 6-phosphofructo-2-kinase/fructose-2, 6-bisphosphatase OTTHUMP00000019040 OTTHUMP00000044861 fructose-6-phosphate,2-kinase/fructose-2, 6-bisphosphatase inducible 6-phosphofructo-2-kinase/fructose-2,6-bi

Publication Reference

- [Differential role of neuronal glucose and PFKFB3 in memory formation during development.](#)

Emmanuel Cruz, Benjamin Bessières, Pierre Magistretti, Cristina M Alberini.

Glia 2022 Nov; 70(11):2207.

Application: WB-Ce, Rat, Rat dorsal hippocampus

- [Impacts of CD44 knockdown in cancer cells on tumor and host metabolic systems revealed by quantitative imaging mass spectrometry.](#)

Ohmura M, Hishiki T, Yamamoto T, Nakanishi T, Kubo A, Tsuchihashi K, Tamada M, Toue S, Kabe Y, Saya H, Suematsu M.

Nitric Oxide : Biology and Chemistry 2015 Apr; 46:102.

Application: WB, Human, HCT116 cells

- [Reduced methylation of PFKFB3 in cancer cells shunts glucose towards the pentose phosphate pathway.](#)

Yamamoto T, Takano N, Ishiwata K, Ohmura M, Nagahata Y, Matsuura T, Kamata A, Sakamoto K, Nakanishi T, Kubo A, Hishiki T, Suematsu M.

Nature Communications 2014 Mar; 5:3480.

Application: WB-Ce, Recombinant protein

- [Energy management by enhanced glycolysis in G1 phase in human colon cancer cells in vivo and in vitro.](#)

Bao Y, Mukai K, Hishiki T, Kubo A, Ohmura M, Sugiura Y, Matsuura T, Nagahata Y, Hayakawa N, Yamamoto T, Fukuda R, Saya H, Suematsu M, Minamishima YA.

Molecular Cancer Research 2013 Sep; 11(9):973.

Application: WB-Tr, Human, HCT116 cells

Pathway

- [Fructose and mannose metabolism](#)

Disease

- [Alzheimer Disease](#)
- [Genetic Predisposition to Disease](#)