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Datasheet for ABIN518808

## anti-PFKFB3 antibody (AA 412-520)

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### Overview

Quantity:	100 µg
Target:	PFKFB3
Binding Specificity:	AA 412-520
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PFKFB3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP)

### Product Details

Purpose:	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:	CPLHTVLKLT PVAYGCRVES IYLNVESVCT HRERSEDAKK GPNPLMRRNS VTPLASPEPT KKPRINSFEE HVAVSTAALP SCLPPEVPTQ LPGQNMKGSR SSADSSRKH
Clone:	3F3
Isotype:	IgG2a
Cross-Reactivity:	Human
Characteristics:	Antibody Reactive Against Recombinant Protein.

## Target Details

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Target:	PFKFB3
Alternative Name:	PFKFB3 ( <a href="#">PFKFB3 Products</a> )
Background:	Full Gene Name: 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3 Synonyms: IPFK2,PFK2
Gene ID:	5209
NCBI Accession:	<a href="#">NM_004566</a>
Pathways:	<a href="#">AMPK Signaling, Regulation of Carbohydrate Metabolic Process</a>

## Application Details

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Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

## Handling

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Buffer:	In 1x PBS, pH 7.4
Handling Advice:	Aliquot to avoid repeated freezing and thawing.
Storage:	-20 °C
Storage Comment:	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

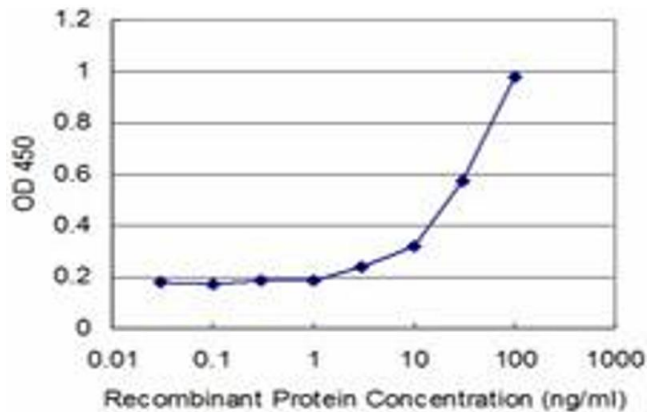
## Publications

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Product cited in:	<p>Ohmura, Hishiki, Yamamoto, Nakanishi, Kubo, Tsuchihashi, Tamada, Toue, Kabe, Saya, Suematsu: "Impacts of CD44 knockdown in cancer cells on tumor and host metabolic systems revealed by quantitative imaging mass spectrometry." in: <b>Nitric oxide : biology and chemistry / official journal of the Nitric Oxide Society</b>, Vol. 46, pp. 102-13, (2015) (<a href="#">PubMed</a>).</p> <p>Yamamoto, Takano, Ishiwata, Ohmura, Nagahata, Matsuura, Kamata, Sakamoto, Nakanishi, Kubo, Hishiki, Suematsu: "Reduced methylation of PFKFB3 in cancer cells shunts glucose towards the pentose phosphate pathway." in: <b>Nature communications</b>, Vol. 5, pp. 3480, (2014) (<a href="#">PubMed</a>).</p> <p>Bao, Mukai, Hishiki, Kubo, Ohmura, Sugiura, Matsuura, Nagahata, Hayakawa, Yamamoto, Fukuda, Saya, Suematsu, Minamishima: "Energy management by enhanced glycolysis in G1-</p>
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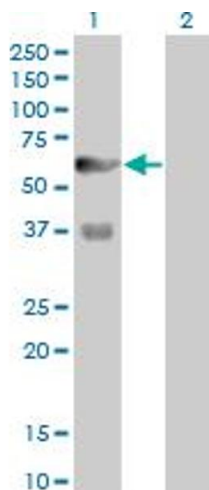
phase in human colon cancer cells in vitro and in vivo." in: **Molecular cancer research : MCR**, Vol. 11, Issue 9, pp. 973-85, (2013) ([PubMed](#)).

Images



**ELISA**

**Image 1.** Detection limit for recombinant GST tagged PFKFB3 is approximately 3ng/ml as a capture antibody.

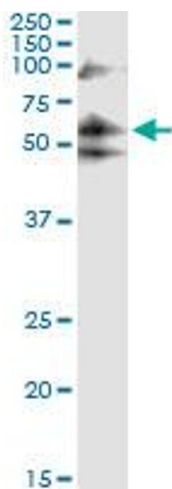


**Western Blotting**

**Image 2.** 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**

**Image 3.** Immunoprecipitation of PFKFB3 transfected lysate using anti-PFKFB3 monoclonal antibody and Protein A Magnetic Bead , and immunoblotted with PFKFB3 MaxPab rabbit polyclonal antibody.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN518808.