



Datasheet for ABIN7138580
anti-PKM antibody (pSer37)



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2 Images

Overview

Quantity:	100 µL
Target:	PKM
Binding Specificity:	pSer37
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PKM antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Peptide sequence around phosphorylation site of serine 37(I-D-S(p)-P-P) derived from Human PKM2.
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using

Target Details

Target:	PKM
Alternative Name:	PKM (PKM Products)

Target Details

Background:	<p>Background:</p> <p>Glycolytic enzyme that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate (PEP) to ADP, generating ATP. Stimulates POU5F1-mediated transcriptional activation. Plays a general role in caspase independent cell death of tumor cells. The ratio between the highly active tetrameric form and nearly inactive dimeric form determines whether glucose carbons are channeled to biosynthetic processes or used for glycolytic ATP production. The transition between the 2 forms contributes to the control of glycolysis and is important for tumor cell proliferation and survival.</p> <p>Aliases: PKM, PK3, OIP3, PK2</p>
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Pathways:	Warburg Effect
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Application Details

Application Notes:	WB:1:500-1:1000, IF:1:100-1:200,
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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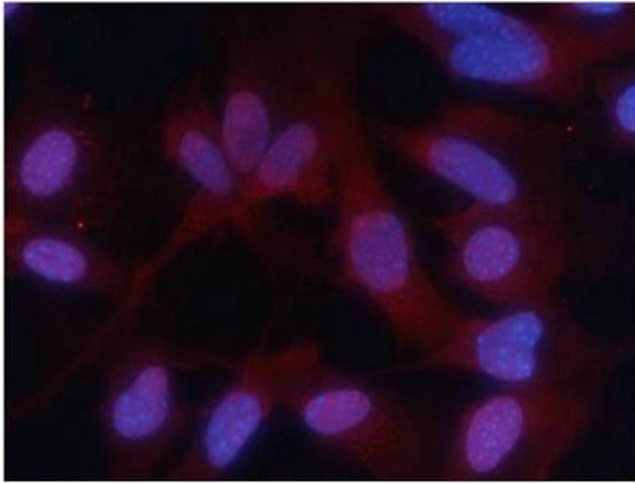
Buffer:	Supplied at 1.0 mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
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Preservative:	Sodium azide
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Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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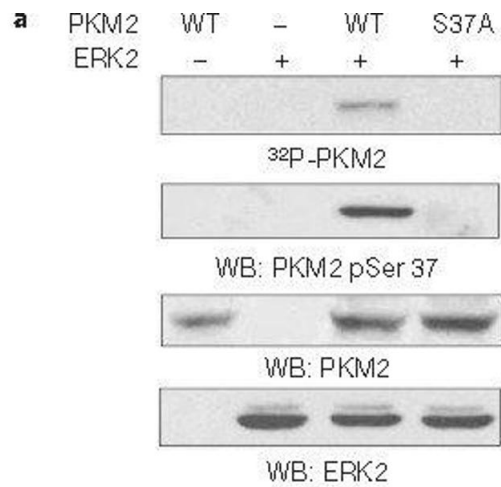
Storage:	-20 °C,-80 °C
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Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
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Immunofluorescence

Image 1. Immunofluorescence staining of methanol-fixed MEF cells using PKM2 (phospho-Ser37) Antibody.



Western Blotting

Image 2. Western blot analysis of in vitro kinase assays carried out with purified active ERK2, wild-type (WT) PKM2 and PKM2 S37A mutant using PKM2(phospho-Ser37)Antibody.