

35-1300: Polyclonal Antibody to PKM2(phospho-Ser37)

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| Clonality : | Polyclonal |
| Application : | WB,IF |
| Reactivity : | Human |
| Gene : | PKM |
| Gene ID : | 5315 |
| Uniprot ID : | P14618 |
| Format : | Purified |
| Alternative Name : | PKM,PK3,OIP3,PK2 |
| Isotype : | Rabbit IgG |
| Immunogen Information : | Peptide sequence around phosphorylation site of serine 37(I-D-S(p)-P-P) derived from Human PKM2. |

Description

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. Weiwei Yang¹, Yanhua Zheng¹, Yan Xia¹, Haitao Ji, "ERK1/2-dependent phosphorylation and nucleartranslocation of PKM2 promotes the Warburg effect." *Nature Cell Biology*(2012)|doi:10.1038/ncb2629 Received16 August 2012 Accepted24 October 2012 Published online25 November 2012

Product Info

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| Amount : | 50 µl / 100 µg |
| Content : | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Storage condition : | Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles. |

Application Note

Predicted MW: 60kd, Western Blot: 1:500~1:1000, Immunofluorescence: 1:100~1:200

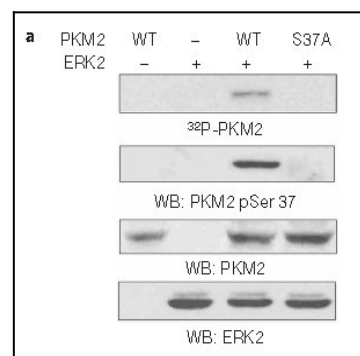


Figure 1: Western blot analysis of in vitro kinase assays carried out with purified active ERK2, wild-type (WT) PKM2 and PKM2 S37A mutant using PKM2(phospho-Ser37)Antibody 35-1300 .

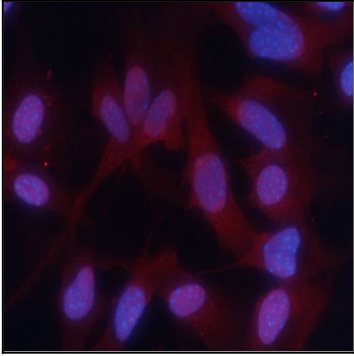


Figure 2: Immunofluorescence staining of methanol-fixed MEF cells using PKM2 (phospho-Ser37) Antibody 35-1300 .