Data Sheet (Cat.No.TMAC-03352)

Anti-Phospho-PKM (Ser37) Polyclonal Antibody

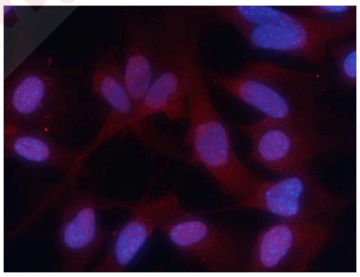
Product Details

Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Actual: 60 kDa.
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 chromatogramphy using non-phosphopeptide.

Applications

Verified Activity:

1. Western blot analysis of in vitro kinase assays carried out with puried active ERK2, wild-type (WT) PKM2 and PKM2 S37A mutant using PKM2 (phospho-Ser37)Antibody TMAC-03352.
2. Immunofluorescence staining of methanol-fixed MEF cells using PKM2 (phospho-Ser37) Antibody TMAC-03352.



Application: IF,WB

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Peptide sequence around phosphorylation site of serine 37(I-D-S(p)-P-P) derived from Human PKM2
Antigen Species:	human
Uniprot ID:	P14618
Synonyms:	PKM2 (p-S37);THBP1;TCB;PKM2;PK3;p-PKM2 (S37);OIP3;CTHBP;HEL-S-30;p-PKM2 (Ser37); pyruvate kinase, muscle;PKM2 (p-Ser37)

Research Background

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 betwween 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

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481