

## PKM1 Antibody

Catalog No: #21577

Package Size: #21577-1 50ul #21577-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

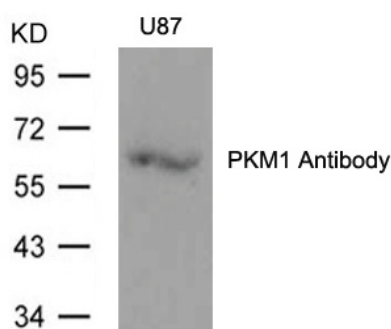
Product Name	PKM1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB IF
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous levels of total PKM1 protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa. 399~403(V-R-A-S-S) derived from Human PKM1.
Target Name	PKM1
Other Names	PKM; PK3; OIP3; PK2;
Accession No.	Swiss-Prot: P14618NCBI Protein: NP_872270.1
Uniprot	P14618
GeneID	5315;
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

## Application Details

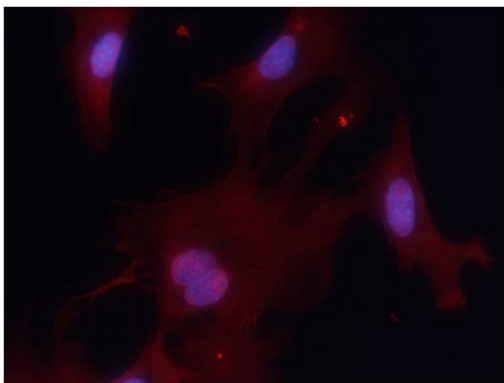
Predicted MW: 60kd

Western blotting: 1:1000

## Images



Western blot analysis of extracts from U87 cells using PKM1 Antibody #21577.



Immunofluorescence staining of methanol-fixed MEF cells using PKM1 Antibody #21577.

## 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 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.

Christofk, H.R. et al. (2008) Nature 452, 230-3.

Mazurek, S. et al. (2005) Semin Cancer Biol 15, 300-8.

Dombrackas, J.D. et al. (2005) Biochemistry 44, 9417-29.

Hitosugi, T. et al. (2009) Sci Signal 2, ra73.

**Note:** This product is for in vitro research use only