Product Datasheet

PKM1/2 Antibody

Catalog No: #21456

Package Size: #21456-1 50ul #21456-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

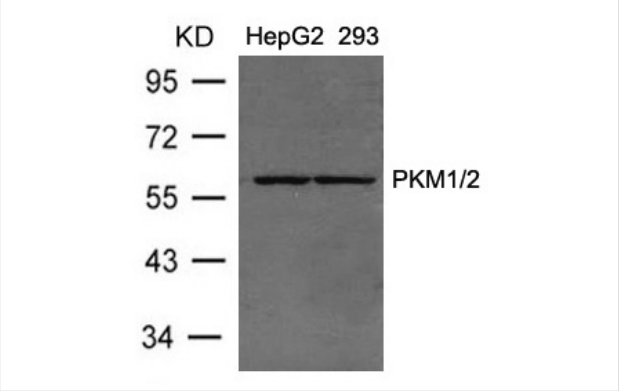
Product Name	PKM1/2 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous levels of total PKM1/2 protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa. 36~40(D-S-P-P-I) derived from Human PKM1/2.
Target Name	PKM1/2
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 Mg2+ and Ca2+), 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 HepG2 and 293 cells using PKM1/2 Antibody #21456.

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.

Christofk, H.R. et al. (2008) Nature 452, 230-3.
Mazurek, S. et al. (2005) Semin Cancer Biol 15, 300-8.
Dombrauckas, 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