

Product datasheet for **TA396718S**

PKM Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	WB: 1:500 - 1:2,000 IHC: 1:500 - 1:2,000 ELISA: 1:4,000 - 1:20,000
Reactivity:	Rabbit
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Pyruvate Kinase (Rabbit Muscle)
Specificity:	Anti-Pyruvate Kinase is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Goat Serum as well as purified and partially purified Pyruvate Kinase (Rabbit Muscle). This product has been reported to react with all forms of pyruvate kinase (pan M-PK). Cross-reactivity against pyruvate kinase from other mammalian tissues is expected but has not been specifically determined.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.0 mg/ml - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is one (1) year from date of receipt.
Database Link:	<u>Entrez Gene 100008676 Rabbit P11974</u>



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Background:

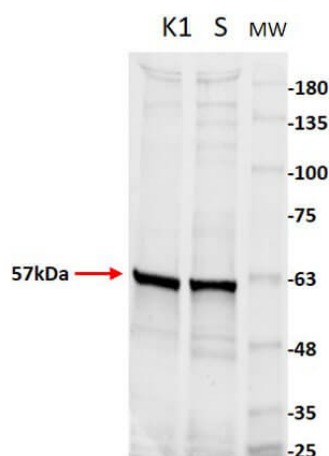
Pyruvate kinase (PKM) is a glycolytic enzyme that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate (PEP) to ADP, generating ATP. It stimulates POU5F1-mediated transcriptional activation. There are 4 isozymes of pyruvate kinase in mammals (L, R, M1, M2) encoded by 2 different genes: PKLR and PKM. The L and R isozymes are generated from the PKLR by differential splicing of RNA; the M1 and M2 forms are produced from the PKM gene by differential splicing. L type is major isozyme in the liver, R is found in red cells, M1 is the main form in muscle, heart and brain, and M2 is found in early fetal tissues as well as in most cancer cells. This protein is involved in step 5 of the subpathway that synthesizes pyruvate from D-glyceraldehyde 3-phosphate. Anti-Pyruvate Kinase (Rabbit Muscle) Antibody is ideal for investigators in Cancer, Cell Biology, and Neuroscience.

Synonyms:

goat anti-Pyruvate Kinase Antibody, Pyruvate kinase isozymes M1/M2 antibody, Pyruvate kinase muscle isozyme antibody, Pyruvate kinase 2/3 antibody, Cytosolic thyroid hormone-binding protein antibody, PKM2

Note:

This affinity purified antibody has been tested in western blot. This antibody is suitable for use in ELISA and immunohistochemistry. Specific conditions for reactivity should be optimized by the end user.

Product images:


Western Blot of Goat Anti-Pyruvate Kinase Antibody. Lane 1: CHO K1 Lysate [10µg]. Lane 2: CHO S Lysate [10µg]. Lane 3: Opal Pre-stained Molecular Weight Marker (p/n MB-210-0500). Primary Antibody: Anti-Pyruvate Kinase at 1:50 overnight at 2-8°C. Secondary Antibody: Donkey Anti-Goat IgG CY5 conjugate (p/n 605-710-125) at 1:10,000 for 30 mins at RT. Expect: ~57kDa.