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Rabbit Anti-Phospho-PKM2 (Tyr148) antibody

SL20036R

Product Name:	Phospho-PKM2 (Tyr148)
Chinese Name:	磷酸化丙酮酸激酶M2抗体
Alias:	PKM2 (Phospho Tyr148); PKM2 (Phospho Y148); PK 1; PK 2; PK 3; PK Muscle type; PK1; PK2; Pk3; PKL; PKLR; PKM 2; PKM; PKM2; PYKM; Pyruvate kinase 1; Pyruvate kinase 2/3; Pyruvate kinase 3; Pyruvate kinase isozyme R/L; Pyruvate kinase isozymes M1/M2; Pyruvate kinase liver and blood cell; Pyruvate kinase liver and RBC; Pyruvate kinase liver and RBC type; Pyruvate kinase M2; Pyruvate kinase muscle; Pyruvate kinase muscle isozyme; Pyruvate kinase type L; R type/L type pyruvate kinase; Red cell/liver pyruvate kinase; RPK; TCB; THBP 1; THBP1; Thyroid hormone binding protein cytosolic; CTHBP; Cytosolic thyroid hormone binding protein; MGC3932; OIP 3; Oip3; Tumor M2-PK; p58; OIP-3; KPYM_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Rabbit,Sheep,Guinea Pig,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500（Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	58kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human PKM2 around the phosphorylation site of Tyr148:NA(p-Y)ME
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year

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	when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The protein encoded by this gene is a pyruvate kinase that catalyzes the production of phosphoenolpyruvate from pyruvate and ATP. This protein has been shown to interact with thyroid hormone, and thus may mediate cellular metabolic effects induced by thyroid hormones. This protein has been found to bind Opa protein, a bacterial outer membrane protein involved in gonococcal adherence to and invasion of human cells, suggesting a role of this protein in bacterial pathogenesis. Three alternatively spliced transcript variants encoding two distinct isoforms have been reported. **Function:** 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. **Subunit:** Monomer and homotetramer. **Subcellular Location:** Cytoplasm. Nucleus. **Tissue Specificity:** Specifically expressed in proliferating cells, such as embryonic stem cells, embryonic carcinoma cells, as well as cancer cells. **Post-translational modifications:** ISGylated. Under hypoxia, hydroxylated by EGLN3. Acetylation at Lys-305 is stimulated by high glucose concentration, it decreases enzyme activity and promotes its lysosomal-dependent degradation via chaperone-mediated autophagy. **Similarity:** Belongs to the pyruvate kinase family. **SWISS:** P14618 **Gene ID:** 5315

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	Database links: Entrez Gene: 5315 Human Entrez Gene: 18746 Mouse Entrez Gene: 25630 Rat Omim: 179050 Human SwissProt: P14618 Human SwissProt: P52480 Mouse SwissProt: P11980 Rat Unigene: 534770 Human Unigene: 326167 Mouse Unigene: 405069 Mouse Unigene: 1556 Rat **Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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