

# Anti-Pyruvate Kinase Antibody

Rabbit polyclonal antibody to Pyruvate Kinase

Catalog # AP61538

## Product Information

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Application	WB
Primary Accession	<a href="#">P14618</a>
Other Accession	<a href="#">P52480</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	57937

## Additional Information

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Gene ID	5315
Other Names	OIP3; PK2; PK3; PKM2; Pyruvate kinase PKM; Cytosolic thyroid hormone-binding protein; CTHBP; Opa-interacting protein 3; OIP-3; Pyruvate kinase 2/3; Pyruvate kinase muscle isozyme; Thyroid hormone-binding protein 1; THBP1; Tumor M2-PK; p58
Target/Specificity	Recognizes endogenous levels of Pyruvate Kinase protein.
Dilution	WB~~WB (1/500 - 1/1000)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

## Protein Information

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Name	PKM
Synonyms	OIP3 {ECO:0000303   PubMed:9466265}, PK2,
Function	Catalyzes the final rate-limiting step of glycolysis by mediating the transfer of a phosphoryl group from phosphoenolpyruvate (PEP) to ADP, generating ATP (PubMed: <a href="#">15996096</a> , PubMed: <a href="#">1854723</a> , PubMed: <a href="#">20847263</a> ). 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 (PubMed: <a href="#">15996096</a> , PubMed: <a href="#">1854723</a> , PubMed: <a href="#">20847263</a> ). The transition between the 2 forms contributes to the control of glycolysis and is important for tumor cell proliferation and survival (PubMed: <a href="#">15996096</a> , PubMed: <a href="#">1854723</a> , PubMed: <a href="#">20847263</a> ).

<b>Cellular Location</b>	[Isoform M2]: Cytoplasm. Nucleus Note=Translocates to the nucleus in response to various signals, such as EGF receptor activation or apoptotic stimuli (PubMed:17308100, PubMed:22056988, PubMed:24120661). Nuclear translocation is promoted by acetylation by EP300 (PubMed:24120661). Deacetylation by SIRT6 promotes its nuclear export in a process dependent of XPO4, thereby suppressing its ability to activate transcription and promote tumorigenesis (PubMed:26787900).
<b>Tissue Location</b>	[Isoform M2]: Specifically expressed in proliferating cells, such as embryonic stem cells, embryonic carcinoma cells, as well as cancer cells.

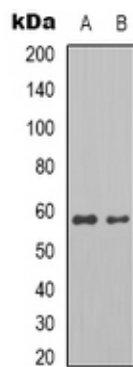
## Background

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KLH-conjugated synthetic peptide encompassing a sequence within the center region of human Pyruvate Kinase. The exact sequence is proprietary.

## Images

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Western blot analysis of Pyruvate Kinase expression in MCF7 (A), HepG2 (B) whole cell lysates.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.