

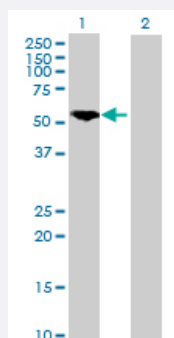
MaxPab®

## PKM2 purified MaxPab rabbit polyclonal antibody (D01P)

Catalog # H00005315-D01P

Size 100 ug

### Applications

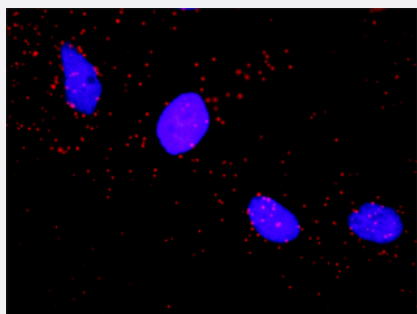


#### Western Blot (Transfected lysate)

Western Blot analysis of PKM2 expression in transfected 293T cell line ([H00005315-T01](#)) by PKM2 MaxPab polyclonal antibody.

Lane 1: PKM2 transfected lysate(57.90 kDa).

Lane 2: Non-transfected lysate.



#### In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between PKM2 and ARAF. HeLa cells were stained with anti-PKM2 rabbit purified polyclonal 1:1200 and anti-ARAF mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

### Specification

#### Product Description

Rabbit polyclonal antibody raised against a full-length human PKM2 protein.

#### Immunogen

PKM2 (NP\_002645.3, 1 a.a. ~ 531 a.a) full-length human protein.

#### Sequence

MSKPHSEAGTAFIQQLHAAMADTFLEHMCRLDIDSPPTARNTGICTIGPASRSVETLKEMIKSG  
MNVARLNFSGHTEHYHAETIKNVRTATESFASDPILYRPVAVALDTKGPEIRTGLIKSGTAEVELK  
KGATLKITLDNAYMEKCDENILWLDYKNICKVVEVGSKIYVDDGLISLQVKQKGADFLVTEVENGG  
LGSKKGVNLPGAAVDLPVSEKDIQDLKFGVEQDQDMVFASFIRKASDVHEVRKVLGEKGKNIKII  
SKIENHEGVRRFDEILEASDGIMVARGDLGIEIPAEEKVFLAQKMMIGRCNRAGKPVICATQMLES  
MIKKPRPTRAEGSDVANAVLDGADCIMLSGETAKGDYPLEAVRMQHLIAREAEAAIYHLQLFEELRRL  
APITSDPTEATAVGAVEASFCCSGAIVLTKSGRSAHQVARYRPRAPIAVTRNPQTARQAHLYRGI  
FPVLCKDPVQEAWAEDVDLRVNFAMNVGKARGFFKKGDVVMLTGWRPGSGFTNTMRVVPVP

Host	Rabbit
Reactivity	Human
Interspecies Antigen Sequence	Mouse (98); Rat (94)
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot (Transfected lysate)

Western Blot analysis of PKM2 expression in transfected 293T cell line ([H00005315-T01](#)) by PKM2 MaxPab polyclonal antibody.

Lane 1: PKM2 transfected lysate(57.90 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between PKM2 and ARAF. HeLa cells were stained with anti-PKM2 rabbit purified polyclonal 1:1200 and anti-ARAF mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

## Gene Info — PKM2

Entrez GeneID	<a href="#">5315</a>
GeneBank Accession#	<a href="#">NM_002654.3</a>
Protein Accession#	<a href="#">NP_002645.3</a>
Gene Name	PKM2
Gene Alias	CTHBP, MGC3932, OIP3, PK3, PKM, TCB, THBP1
Gene Description	pyruvate kinase, muscle
Omim ID	<a href="#">179050</a>
Gene Ontology	<a href="#">Hyperlink</a>

**Gene Summary**

This gene encodes a protein involved in glycolysis. The encoded protein is a pyruvate kinase that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate to ADP, generating ATP and pyruvate. This protein has been shown to interact with thyroid hormone and 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. [provided by RefSeq]

**Other Designations**

OPA-interacting protein 3|PK, muscle type|pyruvate kinase M2|thyroid hormone-binding protein, cytosolic

**Publication Reference**

- [Two-tiered Approach Identifies a Network of Cancer and Liver Disease-related Genes Regulated by miR-122.](#)

Boutz DR, Collins PJ, Suresh U, Lu M, Ramirez CM, Fernandez-Hernando C, Huang Y, de Sousa Abreu R, Le SY, Shapiro BA, Liu AM, Luk JM, Force Aldred S, Trinklein ND, Marcotte EM, Penalva LO.

J Biol Chem 2011 Mar; 286:18066.

Application: WB-Tr, Human, Huh-7 cells

**Pathway**

- [Biosynthesis of alkaloids derived from histidine and purine](#)
- [Biosynthesis of alkaloids derived from ornithine](#)
- [Biosynthesis of alkaloids derived from shikimate pathway](#)
- [Biosynthesis of alkaloids derived from terpenoid and polyketide](#)
- [Biosynthesis of phenylpropanoids](#)
- [Biosynthesis of plant hormones](#)
- [Biosynthesis of terpenoids and steroids](#)
- [Carbon fixation in photosynthetic organisms](#)
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- [Metabolic pathways](#)
- [Purine metabolism](#)
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- [Type II diabetes mellitus](#)

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- [Edema](#)
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