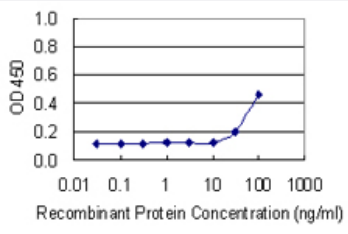
# PKM2 monoclonal antibody (M08), clone 2D8

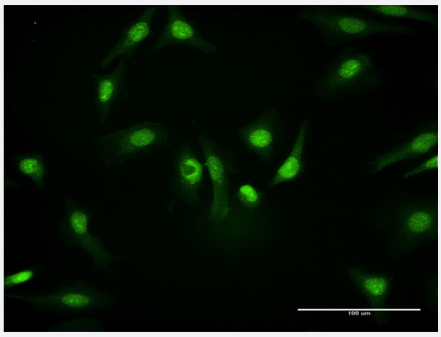
Catalog # H00005315-M08 Size 100 ug

## Applications




### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PKM2 is 10 ng/ml as a capture antibody.



### Immunofluorescence

Immunofluorescence of monoclonal antibody to PKM2 on HeLa cell . [antibody concentration 10 ug/ml]

## Specification

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|---|---|
| **Product Description** | Mouse monoclonal antibody raised against a partial recombinant PKM2. |
| **Immunogen** | PKM2 (NP_002645, 436 a.a. ~ 531 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| **Sequence** | RSAHQVARYRPRAPIIAVTRNPQTARQAHLYRGIFPVLCKDPVQEAWAEDVDLRVNFAMNVGKARGFFKKGDVVIVLTGWRPGSGFTNTMRVVPVP |
| **Host** | Mouse |
| **Reactivity** | Human |

| | |
|---|---|
| **Interspecies Antigen Sequence** | Mouse (95); Rat (96) |
| **Isotype** | IgG2a Kappa |
| **Quality Control Testing** | Antibody Reactive Against Recombinant Protein. |
| **Storage Buffer** | In 1x PBS, pH 7.4 |
| **Storage Instruction** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

## Applications

- Sandwich ELISA (Recombinant protein)

  Detection limit for recombinant GST tagged PKM2 is 10 ng/ml as a capture antibody.

  Protocol Download

- ELISA

- Immunofluorescence

  Immunofluorescence of monoclonal antibody to PKM2 on HeLa cell . [antibody concentration 10 ug/ml]

## Gene Info — PKM2

| | |
|---|---|
| **Entrez GeneID** | 5315 |
| **GeneBank Accession#** | NM_002654 |
| **Protein Accession#** | NP_002645 |
| **Gene Name** | PKM2 |
| **Gene Alias** | CTHBP, MGC3932, OIP3, PK3, PKM, TCB, THBP1 |
| **Gene Description** | pyruvate kinase, muscle |
| **Omim ID** | 179050 |
| **Gene Ontology** | Hyperlink |

| | |
|---|---|
| **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 a nd pyruvate. This protein has been shown to interact with thyroid hormone and may mediate cellul ar metabolic effects induced by thyroid hormones. This protein has been found to bind Opa protei n, a bacterial outer membrane protein involved in gonococcal adherence to and invasion of huma n cells, suggesting a role of this protein in bacterial pathogenesis. Three alternatively spliced trans cript 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, c ytosolic |

## 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
- Glycolysis / Gluconeogenesis
- Metabolic pathways
- Purine metabolism
- Pyruvate metabolism
- Type II diabetes mellitus

## Disease

- Drug Toxicity
- Edema
- Hypercholesterolemia