

**PKM2 Antibody**  
**Rabbit mAb**  
**Catalog # AP90765****Specification****PKM2 Antibody - Product Information**

|                                                                                                                                                         |                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Application                                                                                                                                             | WB, IHC, FC, ICC       |
| Primary Accession                                                                                                                                       | <a href="#">P14618</a> |
| Reactivity                                                                                                                                              | Rat                    |
| Clonality                                                                                                                                               | Monoclonal             |
| <b>Other Names</b>                                                                                                                                      |                        |
| CTHBP; Cytosolic thyroid hormone binding protein; KP YM; OIP 3; Oip3; OIP3; OPA interacting protein 3; p58; PK Muscle type; muscle type; PK2; Pk3; PKM; |                        |
| Isotype                                                                                                                                                 | Rabbit IgG             |
| Host                                                                                                                                                    | Rabbit                 |
| Calculated MW                                                                                                                                           | 57937 Da               |

**PKM2 Antibody - Additional Information**

|                              |                                                                                                                                                                                                       |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dilution                     | WB~~1:1000<br>IHC~~1:100~500<br>FC~~1:10~50<br>ICC~~N/A                                                                                                                                               |
| Purification                 | Affinity-chromatography                                                                                                                                                                               |
| Immunogen                    | A synthesized peptide derived from human PKM2                                                                                                                                                         |
| Description                  | Pyruvate kinase is a glycolytic enzyme that catalyses the conversion of phosphoenolpyruvate to pyruvate. PKM2 is shown to be essential for aerobic glycolysis in tumors, known as the Warburg effect. |
| Storage Condition and Buffer | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.                     |

**PKM2 Antibody - Protein Information****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="http://www.uniprot.org/citations/15996096" target="\_blank">15996096</a>, PubMed:<a

href="http://www.uniprot.org/citations/1854723" target="\_blank">1854723</a>, PubMed:<a href="http://www.uniprot.org/citations/20847263" target="\_blank">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="http://www.uniprot.org/citations/15996096" target="\_blank">15996096</a>, PubMed:<a href="http://www.uniprot.org/citations/1854723" target="\_blank">1854723</a>, PubMed:<a href="http://www.uniprot.org/citations/20847263" target="\_blank">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="http://www.uniprot.org/citations/15996096" target="\_blank">15996096</a>, PubMed:<a href="http://www.uniprot.org/citations/1854723" target="\_blank">1854723</a>, PubMed:<a href="http://www.uniprot.org/citations/20847263" target="\_blank">20847263</a>).

### Cellular Location

[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).

### Tissue Location

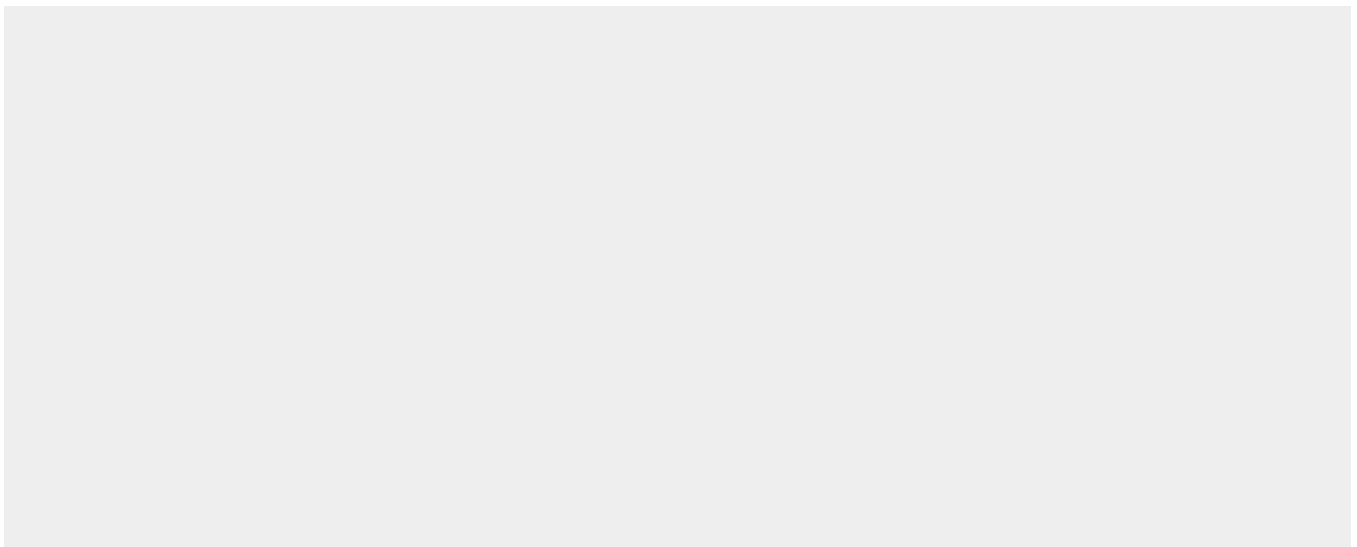
[Isoform M2]: Specifically expressed in proliferating cells, such as embryonic stem cells, embryonic carcinoma cells, as well as cancer cells.

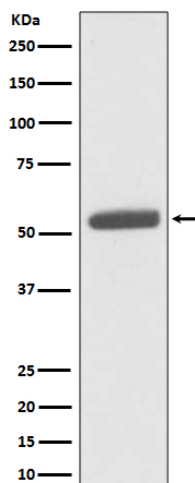
## PKM2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## PKM2 Antibody - Images





Western blot analysis of PKM2 expression in HeLa cell lysate.