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PKM2 Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52752

Specification

PKM2 Antibody - Product Information

Application	**WB**
Primary Accession	P14618
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG2b**
Calculated MW	**60 KDa**

PKM2 Antibody - Additional Information

Gene ID 5315

Other Names
CTHBP ;Cytosolic thyroid hormone binding protein ;Cytosolic thyroid hormone-binding protein ;KPYM_HUMAN ;MGC3932 ;OIP 3 ;OIP-3 ;OIP3 ;OPA interacting protein 3 ;Opa-interacting protein 3 ;p58 ;PK muscle type ;PK, muscle type ;PK2 ;PK3 ;PKM ;PKM2 ;pykm ;Pyruvate kinase 2/3 ;Pyruvate kinase 3 ;Pyruvate kinase isozymes M1/M2 ;Pyruvate kinase muscle ;Pyruvate kinase muscle isozyme ;pyruvate kinase PKM ;Pyruvate kinase, muscle 2 ;TCB ;THBP1 ;Thyroid hormone binding protein 1 ;Thyroid hormone binding protein cytosolic ;Thyroid hormone-binding protein 1 ;Tumor M2 PK ;Tumor M2-PK .

Dilution
WB~~1:1000

Format
PBS(pH 7.4) containing with 0.09% (W/V) sodium azide and 50% glycerol.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

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:15996096, PubMed:1854723, PubMed:20847263). 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:15996096, PubMed:1854723, PubMed:20847263). The transition between the 2 forms contributes to the control of glycolysis and is important for tumor cell proliferation and survival (PubMed:15996096, PubMed:1854723, PubMed:20847263).

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).

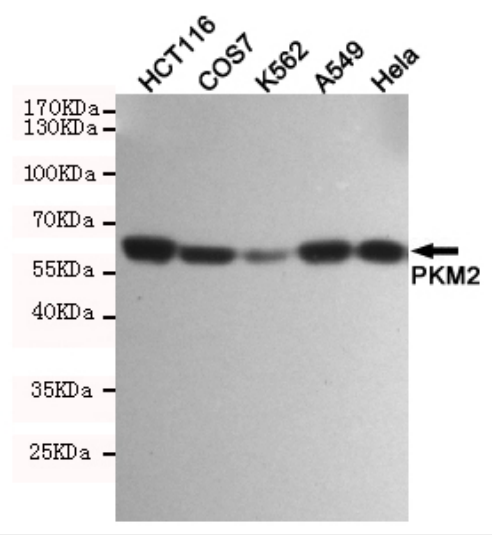
Tissue Location
[Isoform M2]: Specifically expressed in proliferating cells, such as embryonic stem cells, embryonic carcinoma cells, as well as cancer cells.

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 Cytomety
- Cell Culture

PKM2 Antibody - Images



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Western blot detection of PKM2 in HCT116,COS7,K562,A549 and Hela cell lysates using PKM2 mouse mAb (1:1000 diluted).Predicted band size:60KDa.Observed band size:60KDa.

PKM2 Antibody - Background

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.

PKM2 Antibody - References

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