

PKM2 (Phospho Tyr105) Rabbit pAb

CatalogNo: YP1444 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB, IHC, ELISA

MW

- 58kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

IHC 1:50-300

ELISA 1:2000-20000

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized phospho peptide around human PKM2 (Tyr105)

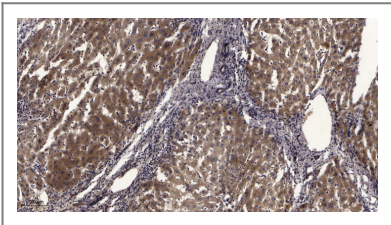
Specificity This antibody detects endogenous levels of Human Mouse Rat PKM2 (phospho-Tyr105)

Target Information

Gene name PKM OIP3 PK2 PK3 PKM2

Protein Name	PKM2 (Tyr105)		
	Organism	Gene ID	UniProt ID
	Human	5315;	P14618;
	Mouse	18746;	P52480;
	Rat	25630;	P11980;
Cellular Localization	[Isoform M2]: Cytoplasm . Nucleus . 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) . . ; [Isoform M1]: Cytoplasm .		
Tissue specificity	[Isoform M2]: Specifically expressed in proliferating cells , such as embryonic stem cells , embryonic carcinoma cells , as well as cancer cells. ; [Isoform M1]: Expressed in adult tissues (PubMed:18337823) . Not expressed in tumor cells (PubMed:18337823) .		
Function	Catalytic activity:ATP + pyruvate = ADP + phosphoenolpyruvate. ,cofactor:Divalent metal cations. ,cofactor:Magnesium. ,cofactor:Potassium. ,enzyme regulation:Isoform M2 is allosterically activated by D-fructose 1 ,6-biphosphate (FBP) . Inhibited by oxalate and 3 ,3' ,5-triiodo-L-thyronine (T3) . ,Function:Glycolytic enzyme that catalyzes the transfer of a phosphoryl group from phosphoenolpyruvate (PEP) to ADP , generating ATP. ,miscellaneous:There are 4 isozymes of pyruvate kinase in mammals: L , R , M1 and M2. L type is major isozyme in the liver , R is found in red cells , M1 is the main form in muscle , heart and brain , and M2 is found in early fetal tissues as well as in most cancer cells. ,online information:Pyruvate kinase entry ,pathway:Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 5/5. ,PTM:Phosphorylated upon DNA damage , probably by ATM or ATR. ,similarity:Belongs to the pyruvate kinase family. ,subunit:Monomer and homotetramer. Exists as a monomer in the absence of FBP , and reversibly associates to form a homotetramer in the presence of FBP. The monomeric form binds T3. Tetramer formation induces pyruvate kinase activity. Interacts with HERC1. ,		

Validation Data



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 45min).

Contact information

Orders: order.cn@immunoway.com
Support: support.cn@immunoway.com
Telephone: 400-8787-807(China)
Website: <http://www.immunoway.com.cn>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



Please scan the QR code
to access additional
product information:
**PKM2 (Phospho
Tyr105) Rabbit pAb**

For Research Use Only. Not for Use in Diagnostic Procedures.

[Antibody](#) | [ELISA Kits](#) | [Protein](#) | [Reagents](#)