



Human Pyruvate Kinase,M2-PK ELISA Kit

Product Code	CSB-E08377h
Protein Biological Process 2	glyconeogenesis and glycometabolism
Abbreviation	PKM2
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	pyruvate kinase, muscle
Uniprot No.	P14618
Alias	CTHBP, MGC3932, OIP3, PK3, PKM, TCB, THBP1, OPA-interacting protein 3 PK, muscle type thyroid hormone-binding protein, cytosolic
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Glycolysis
Sample Types	serum, plasma, tissue homogenates
Detection Range	0.9 U/mL-60 U/mL
Sensitivity	0.225 U/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Metabolism
Gene Names	PKM
Tag Info	quantitative
Protein Description	Sandwich

Description

This Human PKM2 ELISA Kit was designed for the quantitative measurement of Human PKM2 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 0.9 U/mL-60 U/mL and the sensitivity is 0.225 U/mL.

Target Details

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.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human M2-PK in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	87
	Range %	80-95
1:2	Average %	85
	Range %	80-93
1:4	Average %	92
	Range %	85-98
1:8	Average %	94
	Range %	90-100

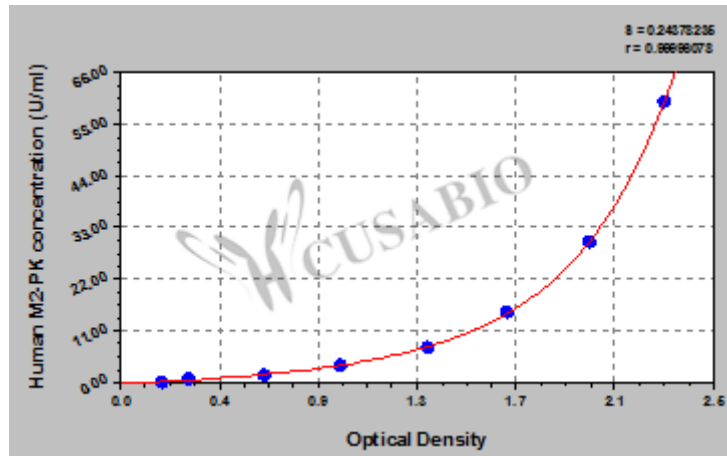
Recovery

The recovery of human M2-PK spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	98	93-106
EDTA plasma (n=4)	90	84-99

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



U/ml	OD1	OD2	Average	Corrected
60	2.311	2.303	2.307	2.115
30	2.035	1.946	1.991	1.799
15	1.684	1.612	1.648	1.456
7.5	1.323	1.297	1.310	1.118
3.75	0.957	0.926	0.942	0.750
1.8	0.648	0.597	0.623	0.431
0.9	0.312	0.300	0.306	0.114
0	0.196	0.188	0.192	?

Msds

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