BT LAB
Bioassay Technology Laboratory

*Optimize Your Research*

# PCK2 Monoclonal Antibody

## Description

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|---|---|
| **Product type** | Antibody |
| **Code** | BT-MCA3818 |
| **Host** | Mouse |
| **Isotype** | Mouse IgG1 |
| **Size** | 100μL, 50μL |
| **Immunogen** | Purified recombinant fragment of human PCK2 (AA: 44-175) expressed in E. Coli. |
| **Mol wt** | 70.7kDa |
| **Species reactivity** | Human,Rat,Monkey |
| **Clonality** | Monoclonal |
| **Recommended application** | WB,IHC,ICC,FCM |
| **Concentration** | N/A |
| **Full name** | N/A |
| **Synonyms** | PEPCK;PEPCK2;PEPCK-M |

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

## Background

This gene encodes a mitochondrial enzyme that catalyzes the conversion of oxaloacetate to phosphoenolpyruvate in the presence of guanosine triphosphate (GTP). A cytosolic form of this protein is encoded by a different gene and is the key enzyme of gluconeogenesis in the liver. Alternatively spliced transcript variants have been described. [provided by RefSeq, Apr 2014]

## Recommended Dilution

WB: 1:500 - 1:2000

IHC-p: 1:200 - 1:1000

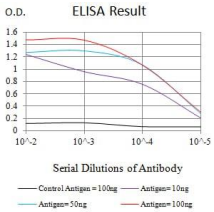
ICC: 1:200 - 1:1000

FCM: 1:200 - 1:400

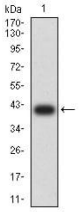
ELISA: 1:10000

Not yet tested in other applications.

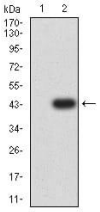
## Images



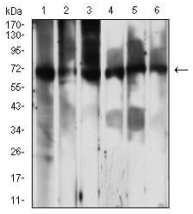

Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



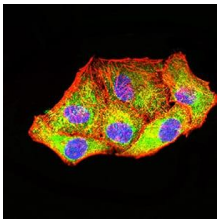

Western blot analysis using PCK2 mAb against human PCK2 (AA: 44-175) recombinant protein. (Expected MW is 40.5 kDa)



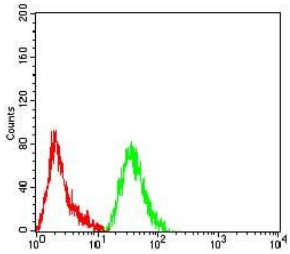

Western blot analysis using PCK2 mAb against HEK293 (1) and PCK2 (AA: 44-175)-hIgGFc transfected HEK293 (2) cell lysate.



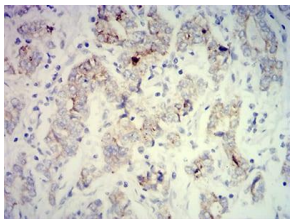

Western blot analysis using PCK2 mouse mAb against Jurkat (1), C2C12 (2), Hela (3), HepG2 (4), COS7 (5), and HL-60 (6) cell lysate.



Immunofluorescence analysis of Hela cells using PCK2 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)




Flow cytometric analysis of Hela cells using PCK2 mouse mAb (green) and negative control (red).



Immunohistochemical analysis of paraffin-embedded stomach cancer tissues using PCK2 mouse mAb with DAB staining.

## Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

501 Changsheng S Rd, Nanhu Dist, Jiaxing, Zhejiang, China

Tel: 86 21 31007137 | E-mail: save@bt-laboratory.com | www.bt-laboratory.com