

For Research Use Only

# CoraLite®594-conjugated Hexokinase 2 Monoclonal antibody

Catalog Number:CL594-66974



## Basic Information

Catalog Number:

CL594-66974

Size:

100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG16895

GenBank Accession Number:

BC021116

GeneID (NCBI):

3099

UNIPROT ID:

P52789

Full Name:

hexokinase 2

Calculated MW:

102 kDa

Observed MW:

102 kDa

Purification Method:

Protein G purification

CloneNo.:

2A11C3

Recommended Dilutions:

WB 1:1000-1:8000

Excitation/Emission maxima wavelengths:

588 nm / 604 nm

## Applications

Tested Applications:

WB

Species Specificity:

human, mouse, rat

Positive Controls:

WB : HeLa cells, HepG2 cells

## Background Information

Hexokinase 2 (HK2), a rate-limiting enzyme in the first step of glycolysis pathway, expresses at high level in cancer cells compared with normal cells. HK2 provides a new target for cancer therapy due to its pivotal role in tumor tumorigenic and metastatic process. HK1 is constitutively expressed in most mammalian adult tissues. HK2, however, although is abundantly expressed in embryonic tissues, is expressed at high levels only in limited number of adult tissues such as adipose, skeletal, and cardiac muscles. (PMID: 29305912, PMID: 28427443, PMID: 23911236)

## Storage

Storage:

Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

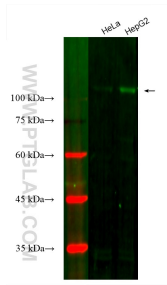
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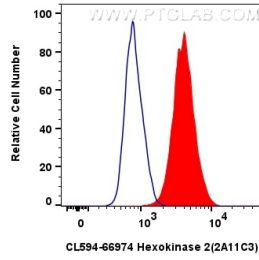
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with CL594-66974 (Hexokinase 2 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



$1 \times 10^6$  HepG2 cells were intracellularly stained with 0.4  $\mu$ g CoraLite®594 Hexokinase 2 Monoclonal Antibody (CL594-66974, Clone:2A11C3)(red), or 0.4  $\mu$ g CoraLite®594 Mouse IgG1 Isotype Control (MOPC-21) (CL594-65124, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).