

# CoraLite®594-conjugated GCK Monoclonal antibody

Catalog Number: **CL594-67216**

## Basic Information

## Catalog Number:

CL594-67216

## Size:

1000 µg/ml

## Source:

Mouse

## Isotype:

IgG1

## Immunogen Catalog Number:

AG8116

## GenBank Accession Number:

BC001890

## GeneID (NCBI):

2645

## UNIPROT ID:

P35557

## Full Name:

glucokinase (hexokinase 4)

## Calculated MW:

52 kDa

## Observed MW:

52 kDa

## Purification Method:

Protein G purification

## CloneNo.:

1C3A3

## Recommended Dilutions:

IF-P 1:50-1:500

Excitation/Emission maxima  
wavelengths:

588 nm / 604 nm

## Applications

## Tested Applications:

IF-P

## Species Specificity:

Human, Mouse, Rat, Pig

## Positive Controls:

IF-P : human liver cancer tissue,

## Background Information

Glucokinase (GCK) is a structurally and functionally unique member of hexokinase family. It is expressed only in mammalian liver and pancreatic islet beta cells. Because of its unique functional characteristics, the enzyme plays an important regulatory role in glucose metabolism. The rate of glucose metabolism in liver and pancreas is a function of the activity of the enzyme (PMID:1740341). Moreover, GCK has been found to have relationship with diabetes. Defects in GCK are the cause of maturity-onset diabetes of the young type 2 (MODY2) and familial hyperinsulinemic hypoglycemia type 3 (HHF3). It has 3 isoforms produced by alternative splicing with the same molecular mass of 52 kDa.

## Storage

## Storage:

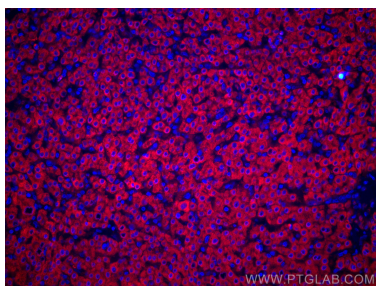
Store at -20°C. Avoid exposure to light.

## Storage Buffer:

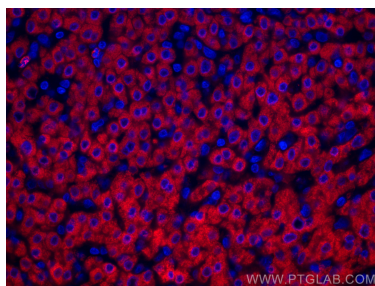
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using CoraLite®594 GCK antibody (CL594-67216, Clone: 1C3A3 ) at dilution of 1:200.



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