

For Research Use Only

# CoraLite® Plus 647-conjugated GSK3B Monoclonal antibody



Catalog Number:CL647-67329

## Basic Information

<b>Catalog Number:</b> CL647-67329	<b>GenBank Accession Number:</b> BC000251	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2932	<b>CloneNo.:</b> 2E9E4
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P49841	<b>Excitation/Emission maxima wavelengths:</b> 654 nm / 674 nm
<b>Isotype:</b> IgG1	<b>Full Name:</b> glycogen synthase kinase 3 beta	
<b>Immunogen Catalog Number:</b> AG17320	<b>Calculated MW:</b> 433 aa, 48 kDa	
	<b>Observed MW:</b> 46-48 kDa	

## Applications

**Tested Applications:**  
FC (Intra)

**Species Specificity:**  
human, pig

## Background Information

Glycogen synthase kinase-3 (GSK3) is a proline-directed serine-threonine kinase that was initially identified as a phosphorylating and inactivating glycogen synthase .GSK3B is involved in energy metabolism, neuronal cell development, and body pattern formation.In skeletal muscle, it contributes to insulin regulation of glycogen synthesis by phosphorylating and inhibiting GYS1 activity and hence glycogen synthesis. Researches showed that the crystal structure of human GSK3B, expressed in insect cells, at 2.8-angstrom resolution .

## Storage

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

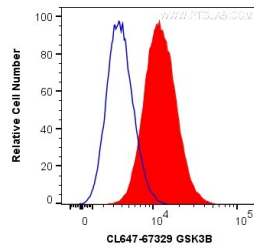
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

**Aliquoting is unnecessary for -20° C storage**

For technical support and original validation data for this product please contact:  
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## Selected Validation Data



1X10<sup>6</sup> HepG2 cells were intracellularly stained with 0.2 ug CoraLite® Plus 647 Anti-Human GSK3B (CL647-67329, Clone:2E9E4) (red), or 0.2 ug isotype control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).