

For Research Use Only

# CoraLite® Plus 488-conjugated Phospho-GSK3B (Ser9) Monoclonal antibody

Catalog Number: CL488-67558



## Basic Information

<b>Catalog Number:</b> CL488-67558	<b>GenBank Accession Number:</b> NM_002093	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2932	<b>CloneNo.:</b> 1C9E2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P49841	<b>Recommended Dilutions:</b> IF/ICC 1:50-1:500
<b>Isotype:</b> IgG1	<b>Full Name:</b> glycogen synthase kinase 3 beta	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
	<b>Observed MW:</b> 48 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, FC (Intra)	<b>Positive Controls:</b> IF/ICC : Calyculin A treated PC-3 cells,
<b>Species Specificity:</b> human	

## 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 INS 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.

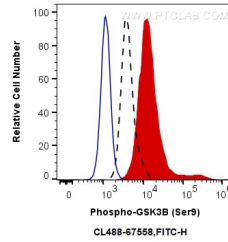
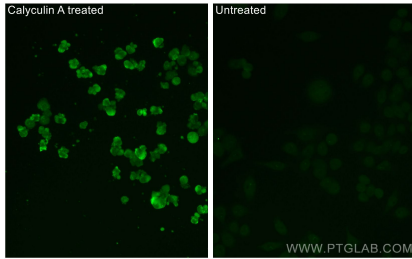
## Storage

**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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E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed Calyculin A treated PC-3 cells and non-treated PC-3 cells using Coralite® Plus 488 Phospho-GSK3B (Ser9) antibody (CL488-67558, Clone: 1C9E2 ) at dilution of 1:100.

1X10<sup>6</sup> Calyculin A treated PC-3 cells were intracellularly stained with 0.13 ug Coralite® Plus 488 Anti-Human Phospho-GSK3B (Ser9) (CL488-67558, Clone:1C9E2) (red), or 0.13 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with 90% MeOH.