

For Research Use Only

CoraLite®594-conjugated Phospho-GSK3B (Ser9) Monoclonal antibody



Catalog Number:CL594-67558

Basic Information

Catalog Number: CL594-67558	GenBank Accession Number: NM_002093	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 2932	CloneNo.: 1C9E2
Source: Mouse	UNIPROT ID: P49841	Recommended Dilutions: IF/ICC 1:50-1:500
Isotype: IgG1	Full Name: glycogen synthase kinase 3 beta	Excitation/Emission maxima wavelengths: 588 nm / 604 nm
	Observed MW: 48 kDa	

Applications

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

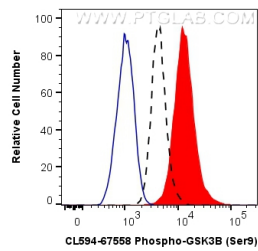
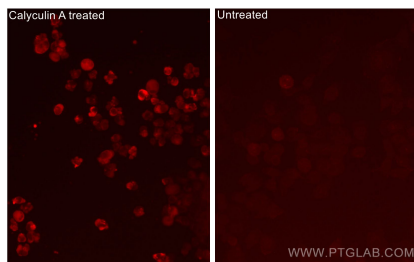
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Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed Calyculin A treated PC-3 cells and non-treated PC-3 cells using CoraLite®594 Phospho-GSK3B (Ser9) antibody (CL594-67558, Clone: 1C9E2) at dilution of 1:100.

1X10⁶ Calyculin A treated PC-3 cells were intracellularly stained with 0.25 ug CoraLite®594 Anti-Human Phospho-GSK3B (Ser9) (CL594-67558, Clone:1C9E2) (red), or 0.25 ug CoraLite®594 Mouse IgG1 Isotype Control (MOPC-21) (CL594-65124, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with 80% MeOH.