

For Research Use Only

Phospho-GSK3B (Ser9) Monoclonal antibody

Catalog Number: 67558-1-Ig 79 Publications



Basic Information

Catalog Number: 67558-1-Ig	GenBank Accession Number: NM_002093	Purification Method: Protein A purification
Concentration: 1000 µg/ml	GeneID (NCBI): 2932	CloneNo.: 1C9E2
Source: Mouse	UNIPROT ID: P49841	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:150-1:600 IF/ICC 1:50-1:500
Isotype: IgG1	Full Name: glycogen synthase kinase 3 beta	
	Observed MW: 48 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Cited Applications: WB, IHC, IF	WB : HeLa cells, Calyculin A treated PC-3 cells, Calyculin A treated HEK-293T cells
Species Specificity: Human	IHC : human liver cancer tissue,
Cited Species: human, mouse, rat, chicken, bovine	IF/ICC : Calyculin A treated PC-3 cells,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Liping Wang	34559939	IUBMB Life	WB
Meizhong Peng	36237833	Int J Endocrinol	WB
Fei Zhu	34653733	Int Immunopharmacol	WB

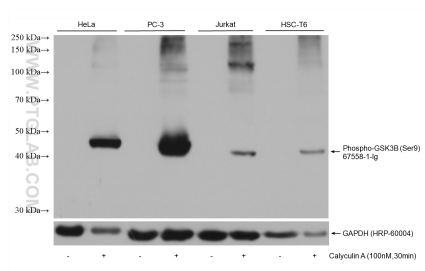
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

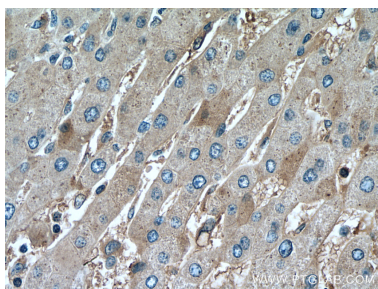
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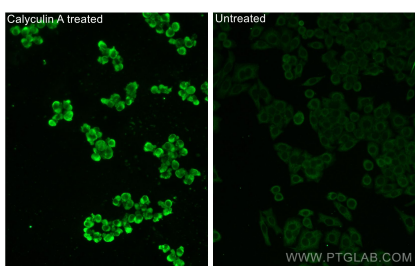
Selected Validation Data



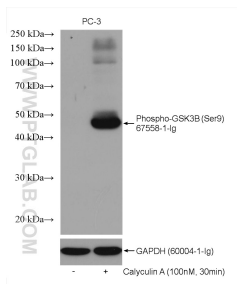
Non-treated and Calyculin A treated cell lysates were subjected to SDS PAGE followed by western blot with 67558-1-Ig (Phospho-GSK3B (Ser9) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 67558-1-Ig (GSK3B-phospho-S9 antibody) at dilution of 1:300 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed Calyculin A treated PC-3 cells and non-treated PC-3 cells using Phospho-GSK3B (Ser9) antibody (67558-1-Ig, Clone: 1C9E2) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



Non-treated and Calyculin A treated PC-3 were subjected to SDS PAGE followed by western blot with 67558-1-Ig (Phospho-GSK3B (Ser9) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with GAPDH Monoclonal antibody (60004-1-Ig) as loading control.