

For Research Use Only

Phospho-GSK3B (Ser9) Monoclonal antibody



Catalog Number: 67558-1-Ig **28 Publications**

Basic Information

Catalog Number: 67558-1-Ig	GenBank Accession Number: NM_002093	Purification Method: Protein G purification
Size: 100ul , Concentration: 2240 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 2932	CloneNo.: 1C9E2
Source: Mouse	Full Name: glycogen synthase kinase 3 beta	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:150-1:600 IF 1:50-1:500
Isotype: IgG1	Observed MW: 48 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls: WB : Calyculin A treated PC-3 cells, Calyculin A treated HEK-293T cells IHC : human liver cancer tissue, IF : Calyculin A treated PC-3 cells,
Cited Applications: IF, IHC, WB	
Species Specificity: Human	
Cited Species: human, mouse, rat	
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
Fei Zhu	34653733	Int Immunopharmacol	WB
Ling Lin	34836374	Nutrients	WB

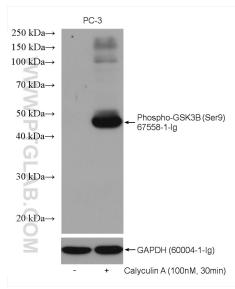
Storage

Storage:
Store at -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

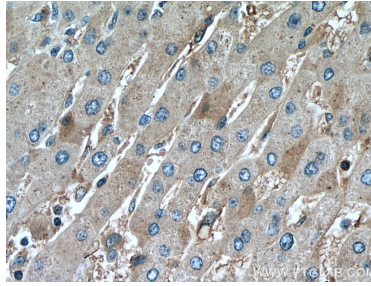
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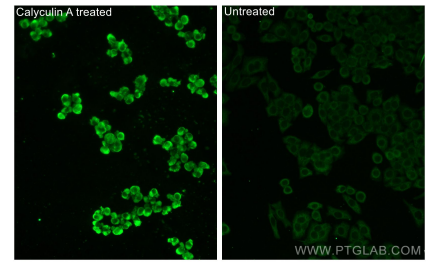
Selected Validation Data



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.



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 AffiniPure Goat Anti-Mouse IgG(H+L).