

For Research Use Only

GSK3B Monoclonal antibody

Catalog Number: 67329-1-Ig **6 Publications**



Basic Information

Catalog Number: 67329-1-Ig	GenBank Accession Number: BC000251	Purification Method: Protein G purification
Size: 2689 µg/ml	GeneID (NCBI): 2932	CloneNo.: 2E9E4
Source: Mouse	UNIPROT ID: P49841	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:1000-1:4000 IF 1:200-1:800
Isotype: IgG1	Full Name: glycogen synthase kinase 3 beta	
Immunogen Catalog Number: AG17320	Calculated MW: 433 aa, 48 kDa	
	Observed MW: 46-48 kDa	

Applications

Tested Applications: IF/ICC, IHC, WB, ELISA	Positive Controls: WB : A549 cells, pig brain tissue, HEK-293 cells, LNCaP cells, HeLa cells, HepG2 cells, Jurkat cells IHC : human breast cancer tissue, human liver cancer tissue IF : HeLa cells,
Cited Applications: CoIP, IF, WB	
Species Specificity: Human, Pig	
Cited Species: human, rat, mouse	
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 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Wen-Ying Yu	34079325	J Inflamm Res	WB,IF
Weijun Zhao	34296778	J Clin Lab Anal	WB,CoIP
Qibing Niu	32686659	Med Sci Monit	WB

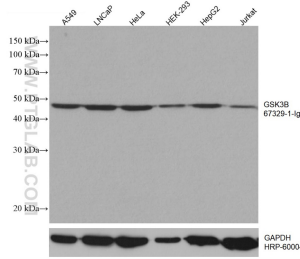
Storage

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

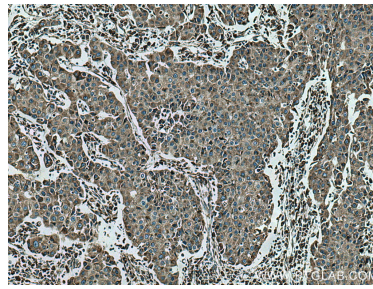
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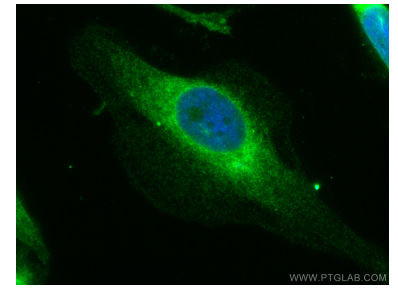
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67329-1-Ig (GSK3B antibody) at dilution of 1:20000 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 breast cancer tissue slide using 67329-1-Ig (GSK3B antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using GSK3B antibody (67329-1-Ig, Clone: 2E9E4) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).