

For Research Use Only

# GSK3B Monoclonal antibody

Catalog Number: 67329-1-Ig **5 Publications**



## Basic Information

<b>Catalog Number:</b> 67329-1-Ig	<b>GenBank Accession Number:</b> BC000251	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 2932	<b>CloneNo.:</b> 2E9E4
<b>Source:</b> Mouse	<b>Full Name:</b> glycogen synthase kinase 3 beta	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:1000-1:4000 IF 1:200-1:800
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 433 aa, 48 kDa	
<b>Immunogen Catalog Number:</b> AG17320	<b>Observed MW:</b> 46-48 kDa	

## Applications

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

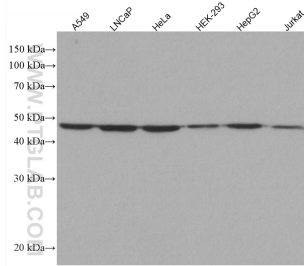
## Storage

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

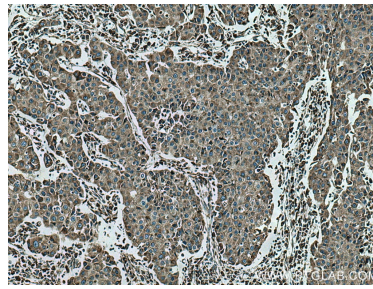
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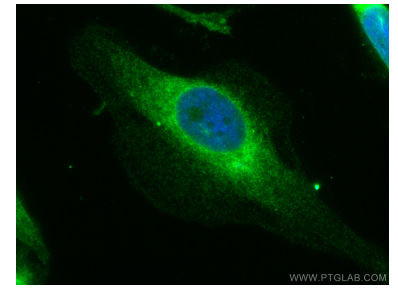
## Selected Validation Data



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.



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).