For Research Use Only

GSK3B Monoclonal antibody

Catalog Number:67329-1-Ig 10 Publications

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Basic Information

Catalog Number:
67329-1-Ig

Size:
1000 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG17320

GenBank Accession Number:
BC000251

GeneID (NCBI):
2932

UNIPROT ID:
P49841

Full Name:
glycogen synthase kinase 3 beta

Calculated MW:
433 aa, 48 kDa

Observed MW:
46-48 kDa

Purification Method:
Protein G purification

CloneNo.:
2E9E4

Recommended Dilutions:
WB 1:5000-1:50000
IHC 1:1000-1:4000
IF/ICC 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IF, CoIP

Species Specificity:
human, pig

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

Positive Controls:

WB : A549 cells, pig brain tissue, HEK-293 cells, LNCaP cells, HeLa cells, HepG2 cells, Jurkat cells, MOLT-4

IHC : human breast cancer tissue, human liver cancer tissue

IF/ICC : HeLa cells,

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

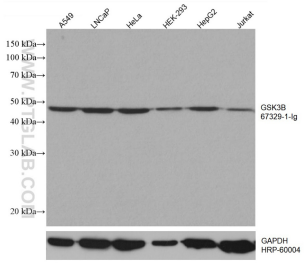
Author	Pubmed ID	Journal	Application
Wen-Ying Yu	34079325	J Inflamm Res	WB,IF
Weijun Zhao	34296778	J Clin Lab Anal	WB,CoIP
Qibing Niu	32686659	Med Sci Monit	WB

Storage

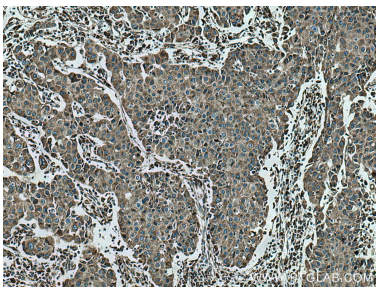
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

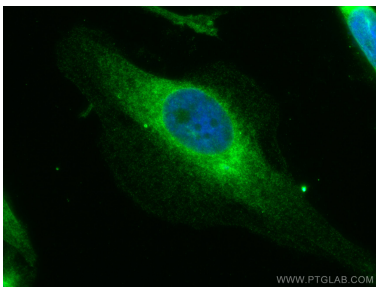
Selected Validation Data



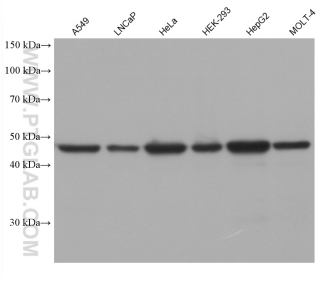
Various lysates were subjected to SDS PAGE followed by western blot with 67329-1-Ig (GSK3B antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



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).



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.