

For Research Use Only

GSK3A Polyclonal antibody

Catalog Number: 13419-1-AP **6 Publications**



Basic Information

Catalog Number: 13419-1-AP	GenBank Accession Number: BC027984	Purification Method: Antigen affinity purification
Size: 1000 ug/ml	GeneID (NCBI): 2931	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:50-1:500 IF/ICC 1:200-1:800
Source: Rabbit	UNIPROT ID: P49840	
Isotype: IgG	Full Name: glycogen synthase kinase 3 alpha	
Immunogen Catalog Number: AG4168	Calculated MW: 483 aa, 51 kDa	
	Observed MW: 51 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls: WB : HeLa cells, human plasma, mouse liver tissue, MCF-7 cells, PC-3 cells IHC : human prostate cancer tissue, human lung cancer tissue, human ovary tumor tissue IF/ICC : HeLa cells,
Cited Applications: WB	
Species Specificity: human, mouse, rat	
Cited Species: human, 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

GSK3A (glycogen synthase kinase 3 alpha), one of the two functional isoforms encoded by the GSK3 gene, is a serine/threonine protein kinase that is involved in cell-cycle progression, differentiation, and apoptosis (PMID: 27049759). GSK3A acts as a tumor suppressor and has important roles in acute myeloid leukemia (AML), prostate cancer, and pancreatic cancer (PMID: 22326953, 22539113, 23547054). GSK3A is also known to interact with beta-amyloid and tau, proteins that aggregate in areas of the neuronal system as part of the pathology of neurodegenerative diseases such as Alzheimer's disease (PMID: 19782073).

Notable Publications

Author	Pubmed ID	Journal	Application
Yuyu Yang	34381779	Front Cell Dev Biol	WB
Nan Song	28722108	J Cell Physiol	WB
Dong-Xue Ding	35281731	iScience	WB

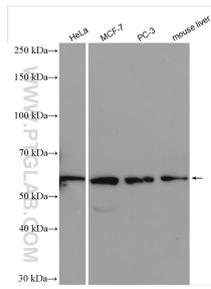
Storage

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

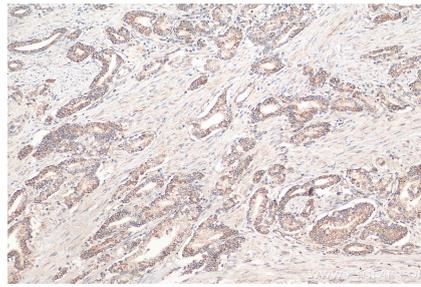
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

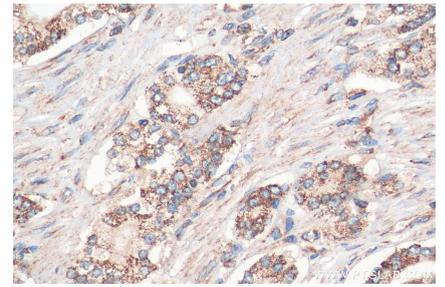
Selected Validation Data



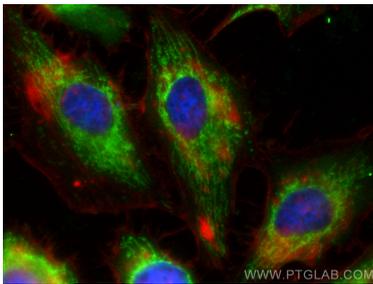
Various lysates were subjected to SDS PAGE followed by western blot with 13419-1-AP (GSK3A antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 13419-1-AP (GSK3A antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 13419-1-AP (GSK3A antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using GSK3A antibody (13419-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).