

For Research Use Only

Phospho-GSK3A (Ser21) Polyclonal antibody



Catalog Number: 28875-1-AP

Basic Information

Catalog Number:

28875-1-AP

Size:

100ul , Concentration: 400 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC027984

GeneID (NCBI):

2931

Full Name:

glycogen synthase kinase 3 alpha

Calculated MW:

483 aa, 51 kDa

Observed MW:

51 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

Human

Positive Controls:

WB : Calyculin A treated PC-3 cells,

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). Glycogen synthase kinase-3 (GSK-3) was initially identified as an enzyme that regulates glycogen synthesis in response to insulin. GSK-3 is a critical downstream element of the PI3K/Akt cell survival pathway whose activity can be inhibited by Akt-mediated phosphorylation at Ser21 of GSK-3A and Ser9 of GSK-3B. GSK3A acts as a tumor suppressor and has important roles in acute myeloid leukemia (AML), prostate cancer, and pancreatic cancer (PMID: 22326953, 22539113, 23547054).

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

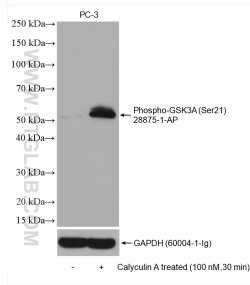
For technical support and original validation data for this product please contact:

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

Selected Validation Data



Non-treated PC-3 and Calyculin A treated PC-3 cells were subjected to SDS PAGE followed by western blot with 28875-1-AP (Phospho-GSK3A (Ser21) antibody) at dilution of 1:3000 incubated at 4°C overnight. The membrane was stripped and re-blotted with GAPDH antibody as loading control.