

For Research Use Only

Phospho-GSK3B (Tyr216) Polyclonal antibody

Catalog Number: 29125-1-AP

9 Publications



Basic Information

Catalog Number:

29125-1-AP

Size:

600 ug/ml

Source:

Rabbit

Isotype:

IgG

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:

50 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB, ELISA

Species Specificity:

human

Cited Species:

human, mouse, rat

Positive Controls:

WB: λ phosphatase treated HEK-293T cells,

Background Information

Glycogen synthase kinase 3 (GSK3) proteins are serine/threonine kinases that were originally identified as key regulatory enzymes in glucose metabolism. There are two isoforms, GSK3 alpha and GSK3 beta, that are encoded by separate genes and that are 85% homologous to each other overall with 95% homology in the kinase domains. PI3K pathway downstream of receptor tyrosine kinase signalling is thought to result in inactivation of GSK3 through phosphorylation of the amino-terminal serine residue (Ser9 in GSK3 beta and Ser21 in GSK3 alpha). GSK3 phosphorylation inhibits its catalytic activity towards its substrates, allowing cytosolic stabilization and nuclear translocation of the transcriptional targets, β -catenin and Nrf2. (PMID: 31354196, PMID: 25750704)

Notable Publications

Author	Pubmed ID	Journal	Application
Hongcheng Zang	35774755	Evid Based Complement Alternat Med	WB
Somayeh Pashaei	39636462	Neurochem Res	WB, ELISA
Xiaosa Chi	39288893	Brain Behav Immun	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:

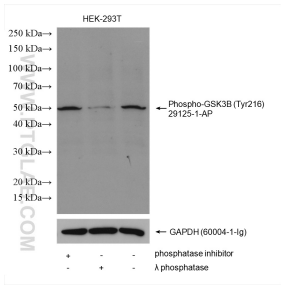
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Selected Validation Data



Non-treated HEK-293T cells, phosphatase inhibitor treated and λ phosphatase treated HEK-293T cells were subjected to SDS PAGE followed by western blot with 29125-1-AP (Phospho-GSK3B (Tyr216) antibody) at dilution of 1:800 incubated at room temperature for 1 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.