

For Research Use Only

Phospho-GSK3A (Tyr279)/GSK3B (Tyr216) Recombinant monoclonal antibody, PBS Only

Catalog Number: 82371-5-PBS



Basic Information

Catalog Number: 82371-5-PBS	GenBank Accession Number: BC000251	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 2932	CloneNo.: 242663E11
Source: Rabbit	UNIPROT ID: P49841	
Isotype: IgG	Full Name: glycogen synthase kinase 3 beta	
	Calculated MW: 433 aa, 48 kDa	
	Observed MW: 48-50 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, mouse

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. GSK3 beta is activated by phosphorylation of the tyrosine 216 residue (Tyr216) located in the kinase domain and inactivated by phosphorylation of the amino-terminal serine 9 residue (Ser9). 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, PMID: 24722055)

Storage

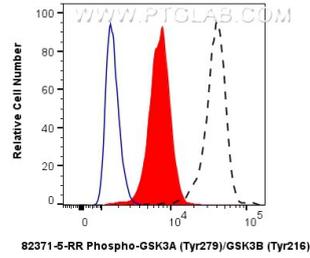
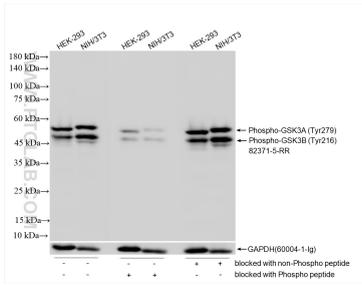
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
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Selected Validation Data



HEK-293 cells and NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 82371-5-RR (Phospho-GSK3A (Tyr279)/GSK3B (Tyr216) antibody) blocked with BSA only, Phospho-GSK3A (Tyr279)/GSK3B (Tyr216) peptide or non-Phospho peptide at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with GAPDH Monoclonal antibody (60004-1-ig) as loading control. This data was



1×10^6 HEK-293 cells untreated (dashed lines) or treated with λ phosphatase which intracellularly stained with 0.25 ug Phospho-GSK3A (Tyr279)/GSK3B (Tyr216) Recombinant monoclonal antibody (82371-5-RR, Clone:242663E11) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 90% MeOH. This data was developed using the

