

Rabbit Anti-GSK3B Polyclonal Antibody

CPB-820RH Rabbit(GSK3B)

Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview	Rabbit Anti-GSK3B Polyclonal Antibody
Antigen Description	Participates in the Wnt signaling pathway. Implicated in the hormonal control of several regulatory proteins including glycogen synthase, MYB and the transcription factor JUN. Phosphorylates JUN at sites proximal to its DNA-binding domain, thereby reducing its affinity for DNA. Phosphorylates MUC1 in breast cancer cells, and decreases the interaction of MUC1 with CTNNB1/beta-catenin. Phosphorylates CTNNB1/beta-catenin.
specificity	The antibody detects endogenous level of GSK3B only when phosphorylated at tyrosine 216.
Target	GSK3B
Immunogen	Peptide sequence around phosphorylation site of tyrosine 216 (V-S-Y(p)-I-C) derived from Human GSK3B.
Host	Rabbit
Species	Human
Cross Reactivity	Human; Mouse; Rat
conjugation	N/A
Applications	IFA, WB, IHC

PACKAGING

Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C /1 year

ANTIGEN GENE INFORMATION

Gene Name	GSK3B glycogen synthase kinase 3 beta [Homo sapiens]
Official Symbol	GSK3B
Synonyms	GSK3B; glycogen synthase kinase 3 beta; glycogen synthase kinase-3 beta; GSK-3 beta; GSK3beta isoform; serine/threonine-protein kinase GSK3B;
GeneID	2932
mRNA Refseq	NM_001146156
Protein Refseq	NP_001139628
MIM	605004
UniProt ID	P49841
Chromosome Location	3q13.3

Pathway

AKT phosphorylates targets in the cytosol, organism-specific biosystem; Adaptive Immune System, organism-specific biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Aurora A signaling, organism-specific biosystem; Axon guidance, organism-specific biosystem; Axon guidance, conserved biosystem;

Function

ATP binding; NF-kappaB binding; RNA polymerase II transcription factor binding; beta-catenin binding; kinase activity; nucleotide binding; p53 binding; protein binding; protein kinase A catalytic subunit binding; protein kinase binding; protein serine/threonine kinase activity; protein serine/threonine kinase activity; tau-protein kinase activity; ubiquitin protein ligase binding;