G-Biosciences Image not found or type unknown

Immunotag™ GSK3β Polyclonal Antibody

Antibody Specification

Catalog No.	ITT2082
Product Description	Immunotag™ GSK3β Polyclonal Antibody
Size	50 µg, 100 µg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	GSK3β
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	IF,WB,IHC-p,IP,ELISA
Recommended Dilution	IF: 1:50-200 Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunoprecipitation: 2-5 ug/mg lysate. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	Synthesized peptide derived from GSK3β, at AA range: 1-80
Specificity	GSK3β Polyclonal Antibody detects endogenous levels of GSK3β protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen
Form	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Gene Name	GSK3B
Accession No.	P49841 Q9WV60 P18266
Alternate Names	GSK3B; Glycogen synthase kinase-3 beta; GSK-3 beta; Serine/threonine-protein kinase GSK3B

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Description	glycogen synthase kinase 3 beta(GSK3B) Homo sapiens The protein encoded by this gene is a serine-threonine kinase, belonging to the glycogen synthase kinase subfamily. It is involved in energy metabolism, neuronal cell development, and body pattern formation. Polymorphisms in this gene have been implicated in modifying risk of Parkinson disease, and studies in mice show that overexpression of this gene may be relevant to the pathogenesis of Alzheimer disease. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009],
Cell Pathway/ Category	ErbB_HER,Chemokine,Cell_Cycle_G1S,Cell_Cycle_G2M_DNA,WNT,WNT-T CELLHedgehog,Axon guidance,Focal adhesion,T_Cell_Receptor,B_Cell_Antigen,Neurotrophin,Insulin_Receptor,Melanogenesis,Alzheimer's disease,Pathways in cancer,Colorectal cancer,Endometrial cancer,Prostate cancer,Basal cell carcinoma,
Protein Expression	Epithelium,Eye,Placenta,Platelet,
Subcellular Localization	nucleus,cytoplasm,mitochondrion,centrosome,cytosol,plasma membrane,postsynaptic density,growth cone,intracellular ribonucleoprotein complex,beta-catenin destruction complex,neuronal cell body,dendritic shaft,p
Protein Function	catalytic activity:ATP + [tau protein] = ADP + [tau protein] phosphate.,enzyme regulation:Inhibited when phosphorylated by AKT1.,function: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.,PTM:Phosphorylated by AKT1 and ILK1.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. GSK-3 subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Monomer (By similarity). Interacts with CABYR, MUC1, NIN and PRUNE.,tissue specificity:Expressed in testis, thymus, prostate and ovary and weakly expressed in lung, brain and kidney.,
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.