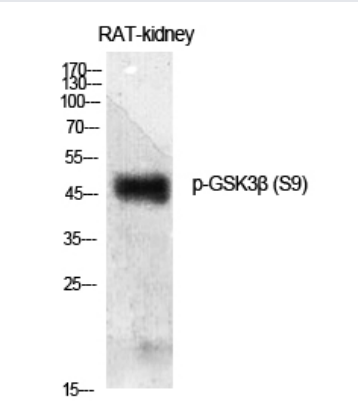
Gsk3beta ELISA Kit for Human, Mouse, Rat

PRODUCT OVERVIEW

Product Name	GSK3beta, ELISA Kit
Full Product Name	GSK3beta (Phospho-Ser9) Colorimetric Cell-Based ELISA Kit
Product Gene Name	GSK3beta elisa kit
Product Synonym Names	GSK3beta (Phospho-Ser9) Cell-Based ELISA Kit; GSK3B; Glycogen synthase kinase-3 beta; GSK-3 beta; Serine/threonine-protein kinase GSK3B
Species Reactivity	Human, Mouse, Rat
Assay Type	Cell-Based ELISA
Samples	Researchers plate their cell line of choice
Detection Range	At least 5000 cells/well
Form/Format	Two 96-Well Plates
Preparation and Storage	4 degree C/6 Months
Molecular Weight	46,744 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (119540800..119813264, complement). Location: 3q13.3
OMIM	605004
3D Structure	ModBase 3D Structure for P49841
Detection Method	Colorimetric 450 nm
Related Product Information for GSK3beta elisa kit	The GSK3beta (Phospho-Ser9) Colorimetric Cell-Based ELISA Kit is a convenient, lysate-free, high throughput and sensitive assay kit that can detect GSK3beta (Phospho-Ser9) protein expression profile in cells. The kit can be used for measuring the relative amounts of GSK3beta (Phospho-Ser9) in cultured cells as well as screening for the effects that variuos treatments, inhibitors (ie siRNA or chemicals), or activators have on GSK3beta (Phospho-Ser9).
Other Notes	Small volumes of GSK3beta elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GSK3beta purchase	MBS9518649 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the GSK3beta, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing GSK3beta. The ELISA analytical biochemical technique of the MBS9518649 kit is based on GSK3beta antibody-GSK3beta antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect GSK3beta antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, GSK3beta. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Western Blot (WB) of GSK3beta elisa kit
Western Blot analysis of various cells using Phospho-GSK3beta (S9) Polyclonal Antibody diluted at 1:500

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GSK3beta. It may not necessarily be applicable to this product.

NCBI GI #	225903437
NCBI GeneID	2932
NCBI Accession #	NP_001139628.1
UniProt Primary Accession #	P49841
UniProt Secondary Accession #	Q9BWH3; Q9UL47; D3DN89
UniProt Related Accession #	P49841
GenBank Nucleotide #	NM_001146156.1
NCBI Official Full Name	glycogen synthase kinase-3 beta isoform 2
NCBI Official Synonym Full Names	glycogen synthase kinase 3 beta
NCBI Official Symbol	GSK3B
UniProt Protein Name	Glycogen synthase kinase-3 beta
UniProt Synonym Protein Names	Serine/threonine-protein kinase GSK3B
UniProt Gene Name	GSK3B
UniProt Synonym Gene Names	GSK-3 beta
UniProt Entry Name	GSK3B_HUMAN
NCBI Protein Information	glycogen synthase kinase-3 beta; GSK-3 beta; GSK3beta isoform; serine/threonine-protein kinase GSK3B
NCBI Summary for GSK3beta	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]

UniProt Comments for GSK3beta	GSK3B: a proline-directed protein kinase of the GSK family. Phosphorylates and inactivates glycogen synthase. Participates in the Wnt signaling pathway. Involved in energy metabolism, neuronal cell development, and body pattern formation Protein type: Protein kinase, CMGC; Kinase, protein; Protein kinase, Ser/Thr (non-receptor); EC 2.7.11.1; EC 2.7.11.26; CMGC group; GSK family; GSK subfamily Chromosomal Location of Human Ortholog: 3q13.3 Cellular Component: centrosome; dendritic spine; cytosol; beta-catenin destruction complex; ribonucleoprotein complex; lipid raft; nucleoplasm; growth cone; cell soma; perinuclear region of cytoplasm; cytoplasm; plasma membrane; dendritic shaft; nucleus Molecular Function: p53 binding; beta-catenin binding; protein kinase binding; integrin binding; ionotropic glutamate receptor binding; protein serine/threonine kinase activity; NF-kappaB binding; protein binding; ubiquitin protein ligase binding; tau-protein kinase activity; kinase activity; tau protein binding; ATP binding Biological Process: circadian rhythm; glycogen metabolic process; fat cell differentiation; axon guidance; negative regulation of MAP kinase activity; genetic imprinting; re-entry into mitotic cell cycle; nerve growth factor receptor signaling pathway; positive regulation of protein binding; protein amino acid autophosphorylation; response to lithium ion; positive regulation of axon extension; Wnt receptor signaling pathway through beta-catenin; protein amino acid phosphorylation; positive regulation of protein export from nucleus; protein export from nucleus; negative regulation of protein binding; positive regulation of cell-matrix adhesion; ER overload response; myoblast fusion; negative regulation of glycogen biosynthetic process; epidermal growth factor receptor signaling pathway; response to drug; regulation of microtubule-based process; cell migration; phosphoinositide-mediated signaling; fibroblast growth factor receptor signaling pathway; hippocampus development; negative regulation of dendrite morphogenesis; negative regulation of NFAT protein import into nucleus; positive regulation of peptidyl-serine phosphorylation; organ morphogenesis; negative regulation of neuron maturation; peptidyl-serine phosphorylation; positive regulation of protein complex assembly; establishment of cell polarity; positive regulation of proteasomal ubiquitin-dependent protein catabolic process; positive regulation of protein catabolic process; epithelial to mesenchymal transition; innate immune response; positive regulation of transcription from RNA polymerase II promoter; negative regulation of protein complex assembly; regulation of neuronal synaptic plasticity; negative regulation of apoptosis
Research Articles on GSK3beta	**1.** GSK3beta chemical inhibition results in HNF4alpha DNA binding impairment while a constitutively active GSK3beta mutant impairs the TGFbeta-induced inhibitory effect on HNF4alpha tumor suppressor activity.
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