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Datasheet for ABIN7320446 **GSK3 beta Protein (His tag)**

Image



Overview

Quantity:	50 µg
Target:	GSK3 beta (GSK3b)
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This GSK3 beta protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse GSK3B Protein (His Tag)(Active)	
Sequence:	Met 1-Thr 420	
Characteristics:	A DNA sequence encoding the mouse GSK3B (Q9WV60) (Met 1-Thr 420) was fused with a polyhistidine tag at the N-terminus.	
Purity:	> 85 % as determined by SDS-PAGE	
Endotoxin Level:	< 1.0 EU per μ g of the protein as determined by the LAL method.	
Biological Activity Comment:	1. The specific activity was determined to be 61 nmol/min/mg using synthetic Phospho- Glycogen Synthase Peptide-2 (YRRAAVPPSPSLSRHSSPHQpSEDEEE) as substrate.2. Immobilized His-mGSK3B at 10 μg/ml (100 μl/well) can bind biotinylated human HG3C-	
	CTNNB1, EC50 of biotinylated human HG3C-CTNNB1 is 0.15-0.35 μ g/ml.	

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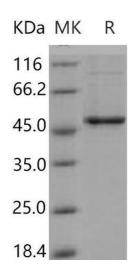
Target:	GSK3 beta (GSK3b)
Alternative Name:	GSK3B (GSK3b Products)
Background:	Background: GSK3B is a serine-threonine kinase, belonging to the glycogen synthase kinase
	subfamily. It Contains 1 protein kinase domain, and is expressed in testis, thymus, prostate and
	ovary and weakly expressed in lung, brain and kidney. GSK3B is involved in energy metabolism,
	neuronal cell development, and body pattern formation. Polymorphisms in GSK3B 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. GSK3B
	participates in the Wnt signaling pathway. It is 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. GSK3B also plays an important role in ERBB2-dependent
	stabilization of microtubules at the cell cortex. It prevents the phosphorylation of APC and
	CLASP2, allowing its association with the cell membrane. In turn, membrane-bound APC allows
	the localization of MACF1 to the cell membrane, which is required for microtubule capture and
	stabilization. GSK3B phosphorylates MACF1 and this phosphorylation inhibits the binding of
	MACF1 to microtubules which is critical for its role in bulge stem cell migration and skin wound
	repair. It may be required for early embryo development and neuron differentiation.
	Synonym: 7330414F15Rik,8430431H08Rik,C86142,GSK-3,GSK-3beta,GSK3
Molecular Weight:	49 kDa
UniProt:	Q9WV60
Pathways:	WNT Signaling, Hedgehog Signaling, Fc-epsilon Receptor Signaling Pathway, Cellular Glucan
	Metabolic Process, ER-Nucleus Signaling, Regulation of Carbohydrate Metabolic Process,
	Hepatitis C, Autophagy, BCR Signaling, Warburg Effect
Application Details	
Restrictions:	For Research Use only
	-
Handling	
Format:	Frozen, Liquid
Buffer:	Supplied as sterile 20 mM Tris, 500 mM NaCl, 25 % glycerol, 0.2 mM DTT, pH 7.4

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Handling

Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Images



Western	Blotting

Image 1.

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