

## Immunotag™ GSK3 alpha Antibody

Antibody Specification	
Catalog No.	ITA1905
Product Description	Immunotag™ GSK3 alpha Antibody
Size	100 µg, 200 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	GSK3 alpha
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC,IP,ELISA
Recommended Dilution	WB 1:500-1:2000 IHC 1:50-1:200 IP
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthesized peptide derived from human GSK3 alpha
Specificity	GSK3 alpha Antibody detects endogenous levels of total GSK3 alpha
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	GSK3A
Accession No.	P49840
Alternate Names	DKFZp686D0638; Glycogen synthase kinase 3 alpha; Glycogen synthase kinase-3 alpha; GSK 3 alpha; GSK 3A; GSK-3 alpha; Gsk3a; GSK3A_HUMAN; GSK3alpha; Serine/threonine protein kinase GSK3A;

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Description	Constitutively active protein kinase that acts as a negative regulator in the hormonal control of glucose homeostasis, Wnt signaling and regulation of transcription factors and microtubules, by phosphorylating and inactivating glycogen synthase (GYS1 or GYS2), CTNNB1/beta-catenin, APC and AXIN1. Requires primed phosphorylation of the majority of its substrates. Contributes to insulin regulation of glycogen synthesis by phosphorylating and inhibiting GYS1 activity and hence glycogen synthesis. Regulates glycogen metabolism in liver, but not in muscle. May also mediate the development of insulin resistance by regulating activation of transcription factors. In Wnt signaling, regulates the level and transcriptional activity of nuclear CTNNB1/beta-catenin. Facilitates amyloid precursor protein (APP) processing and the generation of APP-derived amyloid plaques found in Alzheimer disease. May be involved in the regulation of replication in pancreatic beta-cells. Is necessary for the establishment of neuronal polarity and axon outgrowth. Through phosphorylation of the anti-apoptotic protein MCL1, may control cell apoptosis in response to growth factors deprivation.
Cell Pathway/ Category	Primary Polyclonal Antibody
Protein MW	51kDa
Usage	For Research Use Only! Not for diagnostic or therapeutic procedures.