GSK3 alpha Conjugated Antibody

Catalog No: #C48179

Package Size: #C48179-AF350 100ul #C48179-AF405 100ul #C48179-AF488 100ul #C48179-AF555 100ul #C48179-AF594 100ul #C48179-AF647 100ul #C48179-AF680 100ul #C48179-AF750 100ul #C48179-Biotin 100ul

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Description

Product Name	GSK3 alpha Conjugated Antibody
Host Species	Rabbit
Clonality	Polyclonal
Species Reactivity	Hu
Immunogen Description	peptide
Conjugates	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Other Names	DKFZp686D0638 antibody Glycogen synthase kinase 3 alpha antibody Glycogen synthase kinase-3 alpha antibody GSK 3 alpha antibody GSK 3A antibody GSK-3 alpha antibody Gsk3a antibody GSK3A_HUMAN antibody GSK3alpha antibody Serine/threonine protein kinase GSK3A antibody
Accession No.	Swiss-Prot#:P49840
Uniprot	P49840
GeneID	2931;
Excitation Emission	AF350: 346nm/442nm AF405: 401nm/421nm AF488: 493nm/519nm AF555: 555nm/565nm AF594: 591nm/614nm AF647: 651nm/667nm AF680: 679nm/702nm AF750: 749nm/775nm
Calculated MW	51 kDa
Formulation	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Storage	Store at 4°C in dark for 6 months

Application Details

Suggested Dilution:

AF350 conjugated: most applications: 1: 50 - 1: 250

AF405 conjugated: most applications: 1: 50 - 1: 250

AF488 conjugated: most applications: 1: 50 - 1: 250

AF555 conjugated: most applications: 1: 50 - 1: 250

AF594 conjugated: most applications: 1: 50 - 1: 250

AF647 conjugated: most applications: 1: 50 - 1: 250

AF680 conjugated: most applications: 1: 50 - 1: 250

AF750 conjugated: most applications: 1: 50 - 1: 250

Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1: 50 - 1: 1,000

Background

Glycogen synthase kinase-3 alpha is an enzyme that in humans is encoded by the GSK3A gene. It 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. GSK3 alpha requires primed phosphorylation of the majority of its substrates. It contributes to insulin regulation of glycogen synthesis by phosphorylating and inhibiting GYS1 activity and hence glycogen synthesis. GSK3 alpha regulates glycogen metabolism in liver, but not in muscle. It may also mediate the development of insulin resistance by regulating activation of transcription factors. In Wnt signaling, GSK3 alpha regulates the level and transcriptional activity of nuclear CTNNB1/beta-catenin.

Note: This product is for in vitro research use only