Mouse Monoclonal Antibody to GSK3 alpha

Cataloge Number	sAP-0106

Target Molecule

Name: GSK3 alpha

Aliases: DKFZp686D0638; GSK3A

MW: N/A

Entrez Gene ID: 2931

Descrption

Glycogen synthase kinase 3 alpha belongs to the Ser/Thr family of protein kinases, Cdc2/cdkx subfamily; GSK3 subsubfamily. It is implicated in the hormonal control of several regulatory proteins including glycogen synthase, myb, and the transcription factor c jun. GSK3 phosphorylates glycogen synthase and thereby inactivates it. Insulin stimulates the dephosphorylation of glycogen synthase at the sites phosphorylated by GSK3 and subsequently inhibits GSK3 acutely leading to the stimulation of glycogen synthesis. GSK3 signaling is performed by two isoforms, GSK3 alpha and GSK3 beta. The two isoforms share 97% sequence similarity within their catalytic domains. GSK3 has also been shown to play a role in protein synthesis, cell adhesion, cell proliferation, cell differentiation, microtubule dynamics and cell motility.

Immunogen

Purified recombinant fragment of GSK3 alpha expressed in E. Coli.

Recitative Species

Human

Clone

MM9D5G1;

Size and Concentration

100µg/1mg/ml

Supplied as

Lyophilized Powder from 100µl of Ascitic fluid containing 0.03% sodium azide.

Reconstitution/Storages

Reconstitued with 100µl sterile DI H2O, at stored at 4°C or -20°C for short or long term storage

Applications

ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; ICC: 1 to 200 - 1 to 1000

Shipping

Regular FEDEX overnight shipment (ambient temperature)

Reference

1. Mendez P, Garcia-Segura LM. Endocrinology. 2006 Jun;147(6):3027-39. Epub 2006 Feb 23. ; 2. Bianchi M, De Lucchini S, et, al. Biochem J. 2005 Oct 15;391(Pt 2):359-70. ; 3. De Servi B, Hermani A, Medunjanin S, Mayer D. Oncogene. 2005 Jul 21;24(31):4946-5

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for Research Use Only