GSK3 alpha Mouse Monoclonal Antibody

E10-20133

Background: 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.

Catalog Number: E10-20133

Amount: 100µg/100µl

Clone Number: 9D5G1

Species: Mouse IgG1

Aliases: DKFZp686D0638; GSK3A

Entrez Gene: 2931

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

Storage: Store at 4℃, for long term storage, store at -20℃

Formulation: Ascitic fluid containing 0.03% sodium azide.

Species Reactivities: Human

Tested Applications: WB, IHC, ELISA. Not yet tested in other applications. Determining optimal working dilutions by titration test.

Application notes: WB.1/500 - 1/2000 , IHC 1/200 - 1/1000 ,ELISA. Propose dilution 1/10000.

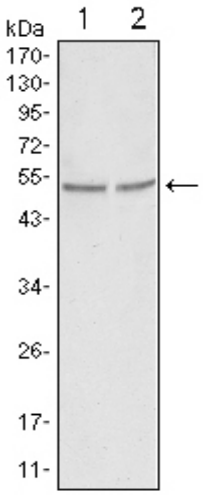

Figure 1. Western blot analysis using GSK3 alpha mouse mAb against Hela (1) and PC-3 cell lysate.

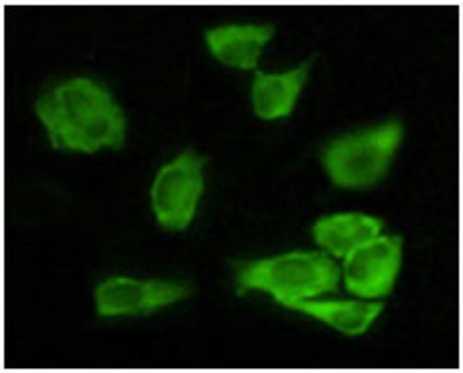

Figure 2. Immunofluorescence analysis of Hela cells using GSK3 alpha mouse mAb showing cytoplasmic localization.

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