

Product Name: GSK3 alpha Mouse Monoclonal Antibody**Catalog #: AMM80591**

For research use only.

Summary

Description	Mouse monoclonal Antibody
Host	Mouse
Application	WB,ICC,ELISA
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Monoclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	PBS containing 0.03% sodium azide.
Purification	Affinity Purification

Application

Dilution Ratio	WB 1:500-1:2000,ICC 1:200-1:1000,ELISA 1:5000-1:20000
Molecular Weight	51kDa

Antigen Information

Gene Name	GSK3 alpha
Alternative Names	DKFZp686D0638; GSK3A
Gene ID	2931.0
SwissProt ID	P49840
Immunogen	Purified recombinant fragment of GSK3 alpha expressed in E. Coli.

Background

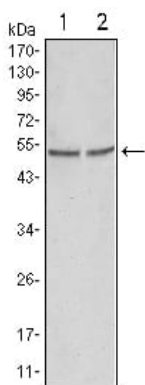
Glycogen synthase kinase 3 alpha belongs to the Ser/Thr family of protein kinases, Cdc2/cdkx subfamily; GSK3 subsubfamily. It is implicated in the hormonal control of several regulatory proteins including glycogen synthase, myb, and the transcription factor c jun. GSK3 phosphorylates glycogen synthase 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.

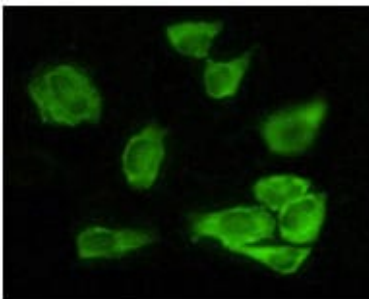
Research Area

Wnt signaling pathway

Image Data



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



Immunofluorescence analysis of HeLa cells using GSK3 alpha mouse mAb showing cytoplasmic localization.