

Product Name: KD-Validated GSK3 Alpha/Beta Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb00256

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:2,500; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Predicted, 51 kDa, observed, 51,47 kDa

Antigen Information

Gene Name	GSK3A/GSK3B
Alternative Names	GSK3A; Glycogen Synthase Kinase 3 Alpha; Serine/Threonine-Protein Kinase GSK3A; Glycogen Synthase Kinase-3 Alpha; EC 2.7.11.26; GSK-3 Alpha; EC 2.7.11.1; EC 2.7.11;Glycogen Synthase Kinase 3 Beta; Serine/Threonine-Protein Kinase GSK3B; Glycogen Synthase Kinase-3 Beta; EC 2.7.11.26; GSK-3 Beta; EC 2.7.11.1; EC 2.7.11
Gene ID	2931,2932
SwissProt ID	P49840,P49841
Immunogen	Recombinant protein of human GSK3 alpha

Background

GSK3A: This gene encodes a multifunctional Ser/Thr protein kinase that is implicated in the control of several regulatory

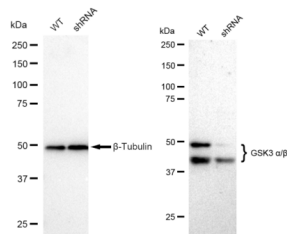
proteins including glycogen synthase, and transcription factors, such as JUN. It also plays a role in the WNT and PI3K signaling pathways, as well as regulates the production of beta-amyloid peptides associated with Alzheimer's disease. [provided by RefSeq, Oct 2011]

GSK3B: The protein encoded by this gene is a serine-threonine kinase belonging to the glycogen synthase kinase subfamily. It is a negative regulator of glucose homeostasis and is involved in energy metabolism, inflammation, ER-stress, mitochondrial dysfunction, and apoptotic pathways. Defects in this gene have been associated with Parkinson disease and Alzheimer disease. [provided by RefSeq, Aug 2017]

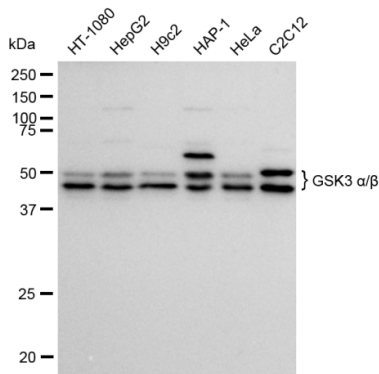
Research Area

Cell Biology ,Signal Transduction,Stem Cells ,Cardiovascular ,Neuroscience,Cancer,Metabolism,

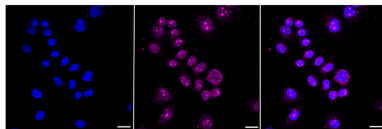
Image Data



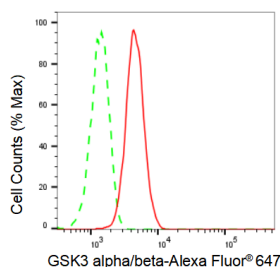
Western blotting analysis using GSK3 alpha/beta antibody (KVA00256). GSK3 alpha/beta expression in wildtype (WT) and GSK3 alpha/beta shRNA knockdown (KD) HeLa cells with 30 ug of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with GSK3 alpha/beta antibody (KVA00256, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using GSK3 alpha/beta antibody (KVA00256). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with GSK3 alpha/beta antibody (KVA00256, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with GSK3 alpha/beta antibody (KVA00256, 1:1,000). Nuclei were stained blue with DAPI; GSK3 alpha/beta was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 μ m.



Flow cytometric analysis of GSK3 alpha/beta expression in HepG2 cells using GSK3 alpha/beta antibody (KVA00256, 1:2,000). Green, isotype control; red, GSK3 alpha/beta.