

Product Name: KD-Validated Phospho-GSK3 (Alpha + Beta)(Y216 + Y279) Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01248

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 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Predicted, 51 kDa, observed, 46,51 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	A synthesized peptide derived from human Phospho-GSK3 (alpha + beta)(Y216 + Y279)

Background

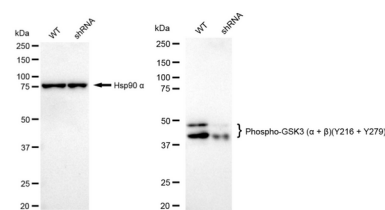
GSK3A: This gene encodes a multifunctional Ser/Thr protein kinase that is implicated in the control of several regulatory proteins including glycogen synthase, and transcription factors, such as JUN. It also plays a role in the WNT and PI3K signaling pathways, as well as regulates the production of beta-amyloid 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]

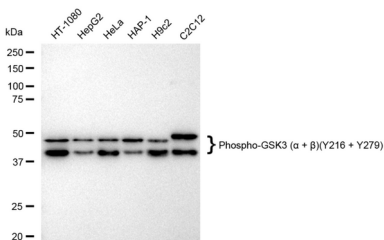
Research Area

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

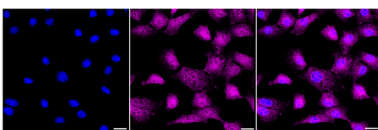
Image Data



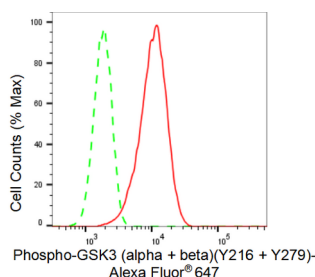
Western blotting analysis using Phospho-GSK3 (alpha + beta)(Y216 + Y279) antibody (KVA01248). Phospho-GSK3 (alpha + beta)(Y216 + Y279) expression in wild type (WT) and Phospho-GSK3 (alpha + beta)(Y216 + Y279) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with Phospho-GSK3 (alpha + beta)(Y216 + Y279) antibody (KVA01248, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Phospho-GSK3 (alpha + beta)(Y216 + Y279) antibody (KVA01248). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Phospho-GSK3 (alpha + beta)(Y216 + Y279) antibody (KVA01248, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with Phospho-GSK3 (alpha + beta)(Y216 + Y279) antibody (KVA01248, 1:1,000). Nuclei were stained blue with DAPI; Phospho-GSK3 (alpha + beta)(Y216 + Y279) 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 µm.



Flow cytometric analysis of Phospho-GSK3 (alpha + beta)(Y216 + Y279) expression in C2C12 cells using Phospho-GSK3 (alpha + beta)(Y216 + Y279) antibody (KVA01248, 1:2,000). Green, isotype control; red, Phospho-GSK3 (alpha + beta)(Y216 + Y279).