

**Product Name:** KD-Validated GSK3 Alpha Recombinant Rabbit Monoclonal Antibody  
**Catalog #:** KVAb00171

For research use only.

## Summary

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

## Application

|                         |                                                         |
|-------------------------|---------------------------------------------------------|
| <b>Dilution Ratio</b>   | WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000 |
| <b>Molecular Weight</b> | Calculated MW: 51.0kDa                                  |

## Antigen Information

|                          |                                                                                                                                                              |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | GSK3A                                                                                                                                                        |
| <b>Alternative Names</b> | 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 |
| <b>Gene ID</b>           | 2931.0                                                                                                                                                       |
| <b>SwissProt ID</b>      | P49840                                                                                                                                                       |
| <b>Immunogen</b>         | A synthesized peptide derived from human GSK3A                                                                                                               |

## Background

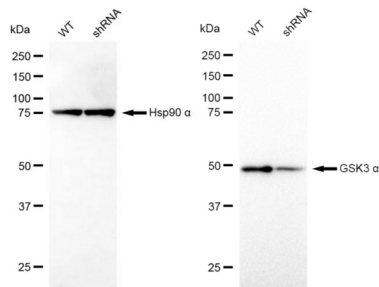
This gene encodes a multifunctional Ser/Thr protein kinase that is implicated in the control of several regulatory proteins including glycogen synthase, and transcription factors, such as JUN. It also plays a role in the WNT and PI3K signaling pathways, as well as regulates the production of beta-amyloid peptides associated with Alzheimer's disease. [provided by RefSeq, Oct

2011]

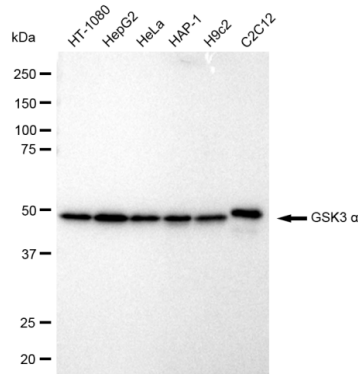
## Research Area

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

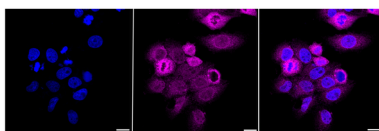
## Image Data



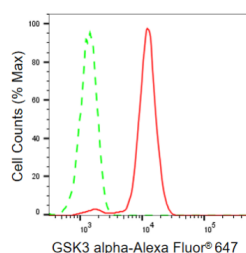
Western blotting analysis using GSK3 alpha antibody (KVA00171). GSK3 alpha expression in wild type (WT) and GSK3 alpha shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with GSK3 alpha antibody (KVA00171, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using GSK3 alpha antibody (KVA00171). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with GSK3 alpha antibody (KVA00171, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with GSK3 alpha antibody (KVA00171, 1:1,000). Nuclei were stained blue with DAPI; GSK3 alpha 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 GSK3 alpha expression in HepG2 cells using GSK3 alpha antibody (KVA00171, 1:2,000). Green, isotype control; red, GSK3 alpha.