

**GSK3 $\alpha$ / $\beta$  (phospho Tyr279/216) rabbit pAb****Cat#: orb764196 (Manual)**

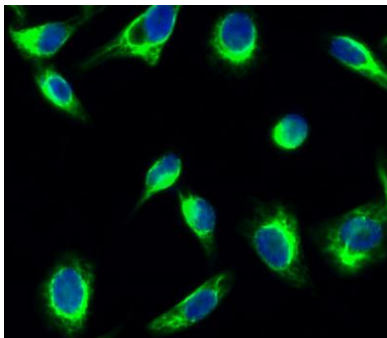
For research use only. Not intended for diagnostic use.

<b>Product Name</b>	GSK3 $\alpha$ / $\beta$ (phospho Tyr279/216) rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	IF;WB;IHC;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	IF: 1:50-200 Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human GSK3 $\alpha$ /beta around the phosphorylation site of Tyr279/216. AA range:246-295
<b>Specificity</b>	Phospho-GSK3 $\alpha$ / $\beta$ (Y279/216) Polyclonal Antibody detects endogenous levels of GSK3 $\alpha$ / $\beta$ protein only when phosphorylated at Y279/216.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Glycogen synthase kinase-3 $\alpha$ /beta
<b>Gene Name</b>	GSK3A/GSK3B
<b>Cellular localization</b>	mitochondrion,cytosol,beta-catenin destruction complex,postsynapse,
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal

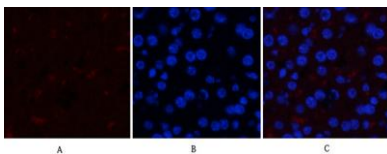
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	51,46kD
<b>Human Gene ID</b>	2931
<b>Human Swiss-Prot Number</b>	P49840/P49841
<b>Alternative Names</b>	GSK3A; Glycogen synthase kinase-3 alpha; GSK-3 alpha; Serine/threonine-protein kinase GSK3A; GSK3B; Glycogen synthase kinase-3 beta; GSK-3 beta; Serine/threonine-protein kinase GSK3B

**Background**

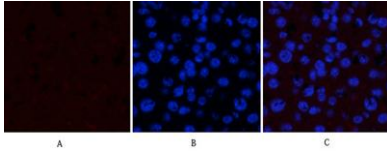
glycogen synthase kinase 3 alpha(GSK3A) Homo sapiens This gene encodes a multifunctional Ser/Thr protein kinase that is implicated in the control of several regulatory proteins including glycogen synthase, and transcription factors, such as JUN. It also plays a role in the WNT and PI3K signaling pathways, as well as regulates the production of beta-amyloid peptides associated with Alzheimer's disease. [provided by RefSeq, Oct 2011],



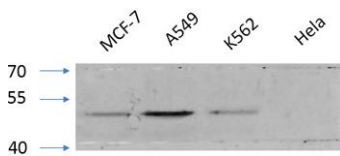
**Immunofluorescence analysis of HeLa cell. 1,GSK3 $\alpha/\beta$  (phospho Tyr279/216) Polyclonal Antibody(green) was diluted at 1:200(4° overnight). 2, Goat Anti Rabbit Alexa Fluor 488 Catalog:RS3211 was diluted at 1:1000(room temperature, 50min). 3 DAPI(blue) 10min.**



**Immunofluorescence analysis of mouse-liver tissue. 1,GSK3 $\alpha/\beta$  (phospho Tyr279/216) Polyclonal Antibody(red) was diluted at 1:200(4°C,overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300(room temperature, 50min).3, Picture B: DAPI(blue) 10min. Picture A:Target. Picture B: DAPI. Picture C: merge of A+B**



Immunofluorescence analysis of mouse-liver tissue. 1, GSK3 $\alpha/\beta$  (phospho Tyr279/216) Polyclonal Antibody (red) was diluted at 1:200 (4°C, overnight). 2, Cy3 labeled Secondary antibody was diluted at 1:300 (room temperature, 50 min). 3, Picture B: DAPI (blue) 10 min. Picture A: Target. Picture B: DAPI. Picture C: merge of A+B



Western Blot analysis of various cells using primary antibody diluted at 1:1000 (4°C overnight). Secondary antibody: Goat Anti-rabbit IgG IRDye 800 (diluted at 1:5000, 25°C, 1 hour). Cell lysate was extracted by Minute<sup>TM</sup> Plasma Membrane Protein Isolation and Cell Fractionation Kit (SM-005, Inventibiotec, MN, USA).