



# GSK3α (phospho Ser21) Polyclonal Antibody

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>         | BYab-30347                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Isotype</b>            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Reactivity</b>         | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Applications</b>       | WB;IHC;IF;IP;ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene Name</b>          | GSK3A                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Name</b>       | Glycogen synthase kinase-3 alpha                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Immunogen</b>          | The antiserum was produced against synthesized peptide derived from human GSK3 alpha around the phosphorylation site of Ser21. AA range:10-59                                                                                                                                                                                                                                                                                                         |
| <b>Specificity</b>        | Phospho-GSK3α (S21) Polyclonal Antibody detects endogenous levels of GSK3α protein only when phosphorylated at S21.                                                                                                                                                                                                                                                                                                                                   |
| <b>Formulation</b>        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>             | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purification</b>       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                 |
| <b>Dilution</b>           | WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. Immunoprecipitation: 2-5 ug/mg lysate. ELISA: 1/20000.. IF 1:50-200                                                                                                                                                                                                                                                                                                                                           |
| <b>Concentration</b>      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>             | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage Stability</b>  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Synonyms</b>           | GSK3A; Glycogen synthase kinase-3 alpha; GSK-3 alpha; Serine/threonine-protein kinase GSK3A                                                                                                                                                                                                                                                                                                                                                           |
| <b>Observed Band</b>      | 55kD                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cell Pathway</b>       | mitochondrion,cytosol,beta-catenin destruction complex,postsynapse,                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Tissue Specificity</b> | Brain,Eye,Foreskin,Lung,Pancreas,Platelet,Testis,                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Function</b>           | catalytic activity:ATP + [tau protein] = ADP + [tau protein] phosphate.,function:Implicated in the hormonal control of several regulatory proteins including glycogen synthase, MYB and the transcription factor JUN.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. GSK-3 subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Monomer., |
| <b>Background</b>         | 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                                                                                                                                                                                                      |

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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],

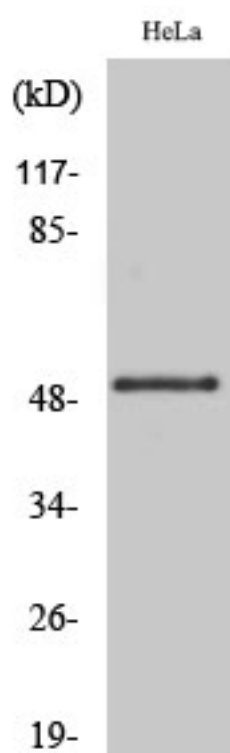
**matters needing attention**

Avoid repeated freezing and thawing!

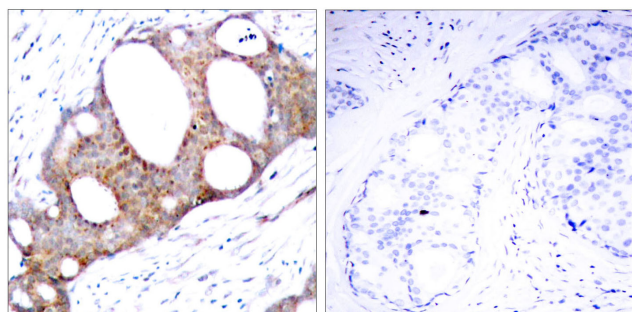
**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of various cells using Phospho-GSK3 $\alpha$  (S21) Polyclonal Antibody



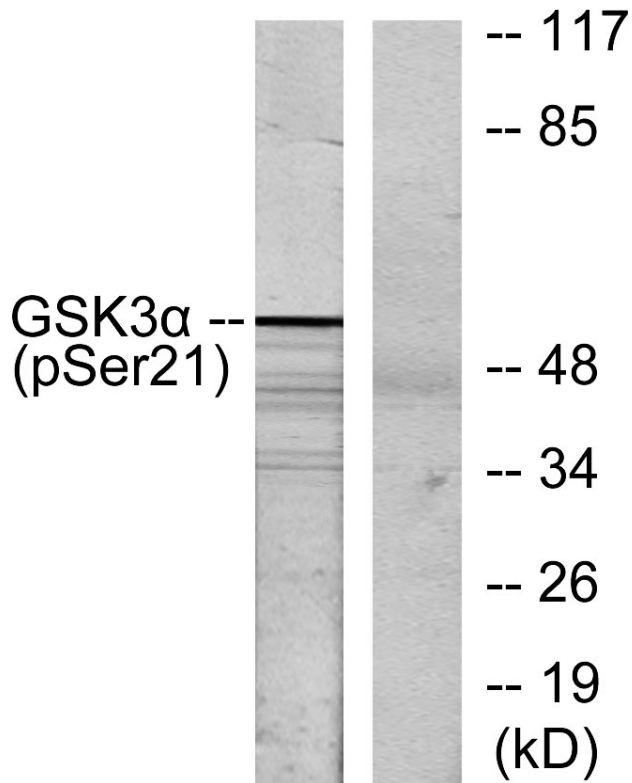
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using GSK3 alpha (Phospho-Ser21) Antibody. The picture on the right is blocked with the phospho peptide.

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Western blot analysis of lysates from ovary cancer, using GSK3 alpha (Phospho-Ser21) Antibody. The lane on the right is blocked with the phospho peptide.