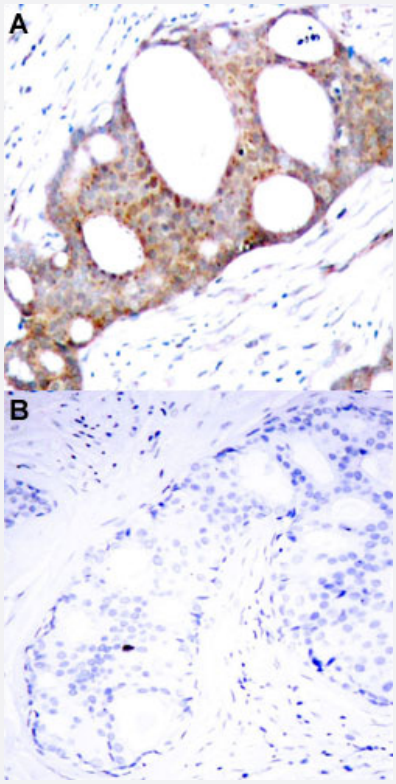
# GSK3A (phospho S21) polyclonal antibody

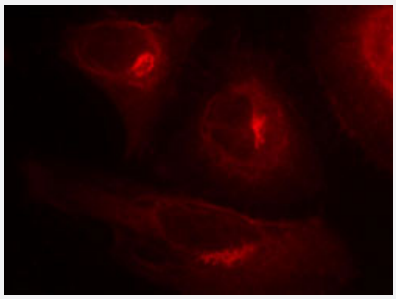
Catalog # PAB29598 Size 100 uL

## Applications




### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

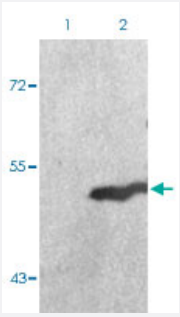
Immunohistochemical staining of human breast cancer tissue by GSK3A (phospho S21) polyclonal antibody (Cat# PAB29598) without blocking peptide (A) or preincubated with blocking peptide (B) under 1:50-1:100 dilution.



### Immunofluorescence

Immunofluorescent staining of methanol-fixed Hela cells shows positivity in cytoplasmic using GSK3A (phospho S21) polyclonal antibody (Cat# PAB29598) at 1:100-1:200 dilution.

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## Western Blot (Cell lysate)

Western blot analysis of Lane 1: 293 cells, Lane 2: serum treated 293 cells with GSK3A (phospho S21) polyclonal antibody (Cat# PAB29598) at 1:500-1:1000 dilution.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against synthetic phosphopeptide of human GSK3A. |
| **Immunogen** | A synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding S21 of human GSK3A. |
| **Host** | Rabbit |
| **Theoretical MW (kDa)** | 51 |
| **Reactivity** | Human, Mouse, Rabbit |
| **Specificity** | GSK3A (phospho S21) polyclonal antibody detects endogenous level of GSK3A only when phosphorylated at serine 21 and does not detect GSK3B when phosphorylated at serine 9. |
| **Form** | Liquid |
| **Purification** | Affinity Chromatography |
| **Recommend Usage** | Immunofluorescence (1:100-1:200)<br>Immunohistochemistry (1:50-1:100)<br>Western Blot (1:500-1:1000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS (without $Mg^{2+}$ and $Ca^{2+}$), 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide) |
| **Storage Instruction** | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

## Applications

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- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical staining of human breast cancer tissue by GSK3A (phospho S21) polyclonal antibody (Cat# PAB29598) without blocking peptide (A) or preincubated with blocking peptide (B) under 1:50-1:100 dilution.

- Immunofluorescence

  Immunofluorescent staining of methanol-fixed Hela cells shows positivity in cytoplasmic using GSK3A (phospho S21) polyclonal antibody (Cat# PAB29598) at 1:100-1:200 dilution.

- Western Blot (Cell lysate)

  Western blot analysis of Lane 1: 293 cells, Lane 2: serum treated 293 cells with GSK3A (phospho S21) polyclonal antibody (Cat# PAB29598) at 1:500-1:1000 dilution.

## Gene Info — GSK3A

| | |
|---|---|
| **Entrez GeneID** | 2931 |
| **Protein Accession#** | P49840 |
| **Gene Name** | GSK3A |
| **Gene Alias** | DKFZp686D0638 |
| **Gene Description** | glycogen synthase kinase 3 alpha |
| **Omim ID** | 606784 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | Glycogen synthase kinase 3-alpha (GSK3A; EC {2.7.1.37}) is a multifunctional protein serine kinase, homologous to Drosophila 'shaggy' (zeste-white3) and implicated in the control of several regulatory proteins including glycogen synthase (see GYS1, {138570}) and transcription factors (e.g., JUN, {165160}). It also plays a role in the WNT ({164820}) and PI3K (see PIK3CG, {601232}) signaling pathways (see review by {1:Ali et al. (2001)}).[supplied by OMIM |
| **Other Designations** | - |

## Pathway

- Chemokine signaling pathway

## Disease

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- Cognition
- Coronary Disease
- Genetic Predisposition to Disease
- Schizophrenia
- Schizophrenic Psychology
- Weight Gain

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