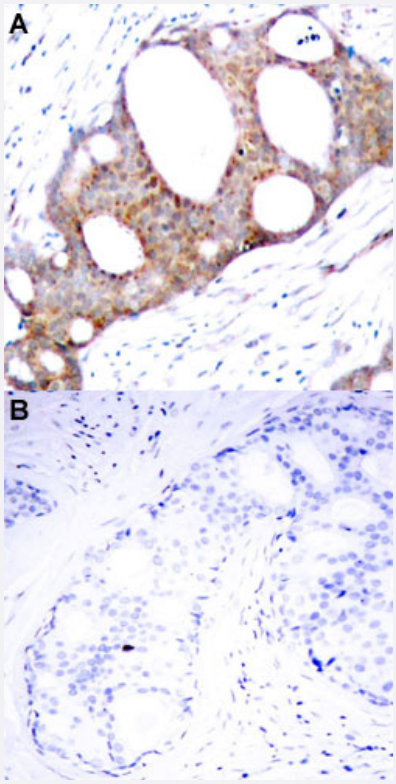
GSK3A (phospho S21) polyclonal antibody

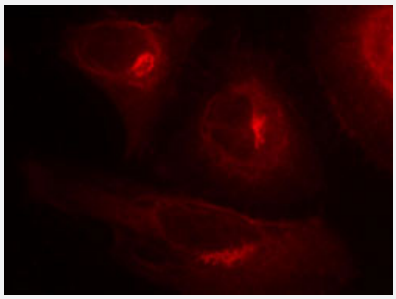
Catalog # PAB29598 Size 100 uL

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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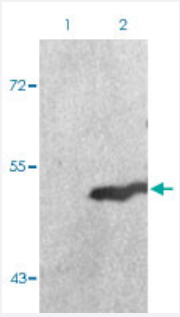

Western Blot (Cell lysate)

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) Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000) 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. 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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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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