

**GSK3α (phospho Ser21) Polyclonal Antibody**

<b>Catalog No :</b>	YP0122
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;IP;ELISA
<b>Target :</b>	GSK3α
<b>Fields :</b>	>>Chemokine signaling pathway;>>Dopaminergic synapse;>>Non-alcoholic fatty liver disease;>>Shigellosis
<b>Gene Name :</b>	GSK3A
<b>Protein Name :</b>	Glycogen synthase kinase-3 alpha
<b>Human Gene Id :</b>	2931
<b>Human Swiss Prot No :</b>	P49840
<b>Mouse Gene Id :</b>	606496
<b>Mouse Swiss Prot No :</b>	Q2NL51
<b>Rat Gene Id :</b>	50686
<b>Rat Swiss Prot No :</b>	P18265
<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>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

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**Purification :** The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 55kD

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**Cell Pathway :** Chemokine;

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**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],

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**Function :** 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.,

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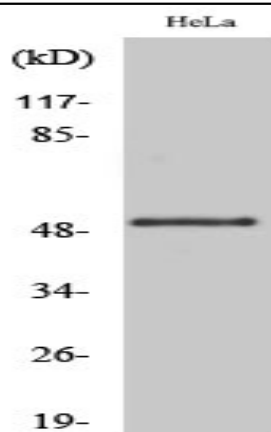
**Subcellular Location :** apical dendrite;axon;beta-catenin destruction complex;cytoplasm;cytosol;mitochondrion;neuronal cell body;nucleus;postsynapse;proximal dendrite;

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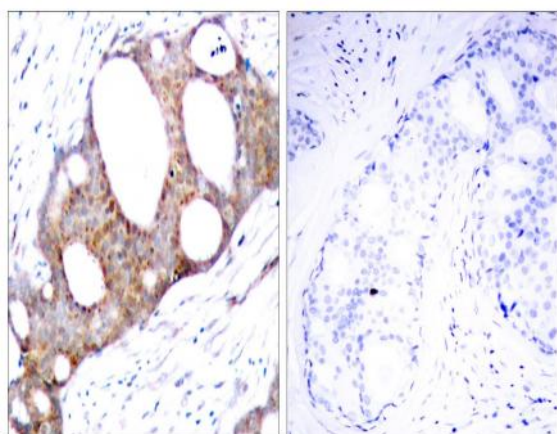
**Expression :** Brain, Eye, Foreskin, Lung, Pancreas, Platelet, Testis,

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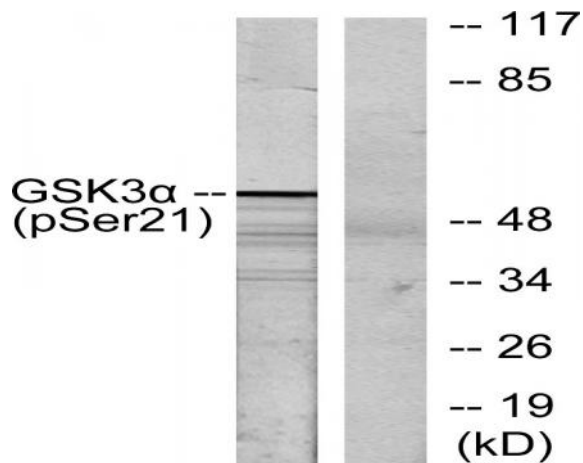
## Products Images



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.



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.