



GSK3α (phospho Ser21) Polyclonal Antibody

Catalog No	YP-Ab-14309
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;IP;ELISA
Gene Name	GSK3A
Immunogen	The antiserum was produced against synthesized peptide derived from human GSK3 alpha around the phosphorylation site of Ser21. AA range:10-59
Specificity	Phospho-GSK3α (S21) Polyclonal Antibody detects endogenous levels of GSK3α protein only when phosphorylated at S21.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. Immunoprecipitation: 2-5 ug/mg lysate. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Serine/threonine-protein kinase GSK3A;GSK-3 alpha;GSK 3 alpha;Glycogen synthase kinase-3 alpha;EC:2.7.11.26;GSK3α;GSK3A
Observed Band	55kD
Calculated Molecular Weight	55kD
Cell Pathway	mitochondrion,cytosol,beta-catenin destruction complex,postsynapse,
Tissue Specificity	Brain,Eye,Foreskin,Lung,Pancreas,Platelet,Testis,
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.,
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],

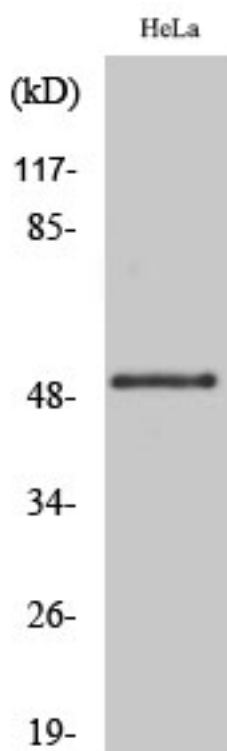
matters needing attention

Avoid repeated freezing and thawing!

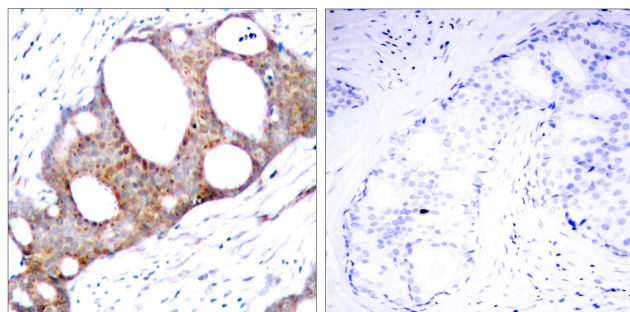
Usage suggestions

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

Products Images



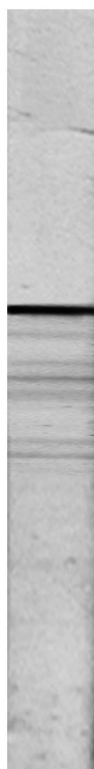
Western Blot analysis of various cells using Phospho-GSK3α (S21) Polyclonal Antibody



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.



GSK3 α --
(pSer21)



-- 117

-- 85

-- 48

-- 34

-- 26

-- 19

(kD)

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.