

Product datasheet for AP01594PU-N

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GSK3 alpha (GSK3A) pSer21 Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IHC, IP, WB

Recommended Dilution: Western Blot: 1/500-1/1000.

Immunohistochemistry on paraffin sections: 1/50-1/200.

Immunoprecipitation: 1/50-1/200.

Reactivity: Human, Mouse, Rat

Host: Rabbit

Clonality: Polyclonal

Specificity: This antibody detects endogenous levels of GSK3 alpha pSer21 protein.

Formulation: Phosphate buffered saline (PBS), pH~7.2 containing 0.05% Sodium Azide as preservative.

State: Aff - Purified

State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE).

Concentration: 1.0 mg/ml

Purification: Affinity Chromatography using epitope-specific immunogen.

Conjugation: Unconjugated

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: One year from despatch.

Predicted Protein Size: ~ 51 kDa

Gene Name: glycogen synthase kinase 3 alpha

Database Link: Entrez Gene 2931 Human

P49840



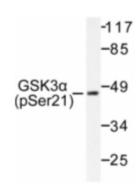
Background:

Glycogen synthase kinase-3 α and β (GSK-3 α , β) are serine/threonine kinases that regulate metabolic enzymes and transcription factors, which are responsible for coordinating processes such as glycogen synthesis and cell adhesion. GSK-3 β activity is also required for nuclear activity of Rel dimers, which mediate an anti-apoptotic response to TNF α in mice. GSK-3 catalytic kinase activity is controlled through differential phosphorylation of serine/threonine residues, which have an inhibitory effect, and tyrosine residues, which have an activating effect. Growth factor stimulation of mammalian cells expressing GSK-3 α and GSK-3 α induces phosphorylation of Ser 21 and Ser 9, respectively through a phosphatidylinositol 3-kinase (PI 3-kinase)-protein kinase B (PKB) dependent pathway, thereby enhancing proliferative signals. Additionally, GSK-3 physically associates with cAMP-dependent protein kinase A (PKA), which phosphorylates Ser 21 of GSK-3 α or Ser 9 of GSK-3 α and inactivates both forms.

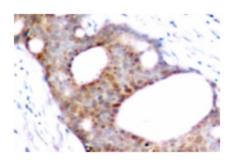
Synonyms:

Glycogen synthase kinase-3 alpha, GSK3A, GSK-3 alpha, Factor A

Product images:



Western blot (WB) analysis of GSK3a pSer21 antibody (Cat.-No.: AP01594PU-N) in extracts from ovary cancer.



Immunohistochemistry (IHC) analysis of GSK3a pSer21 Antibody (Cat.-No.: AP01594PU-N) in paraffin-embedded human breast carcinoma tissue.