Datasheet for ABIN197104

anti-GSK3 alpha antibody (Ser21)

4 Images

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Overview

Quantity:	0.1 mL
Target:	GSK3 alpha (GSK3a)
Binding Specificity:	Ser21
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GSK3 alpha antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Synthetic non-phosphopeptide derived from human GSK3alpha around the phosphorylation site of serine 21 (T-S-SP-F-A).
Specificity:	GSK3alpha Antibody detects endogenous levels of total GSK3α protein.
Purification:	Affinity chromatography

Target Details

Target:	GSK3 alpha (GSK3a)
Alternative Name:	GSK3 alpha (GSK3a Products)
Background:	Glycogen synthase kinase 3 alpha belongs to the Ser/Thr family of protein kinases, Cdc2/cdkx subfamily, GSK3 subsubfamily. It is implicated in the hormonal control of several regulatory

Target Details

	proteins including glycogen synthase, myb, and the transcription factor c jun. GSK3 phosphorylates glycogen synthase and thereby inactivates it. Insulin stimulates the dephosphorylation of glycogen synthase at the sites phosphorylated by GSK3 and subsequently inhibits GSK3 acutely leading to the stimulation of glycogen synthesis. GSK3 signaling is performed by two isoforms, GSK3 alpha and GSK3 beta. The two isoforms share 97 % sequence similarity within their catalytic domains. GSK3 has also been shown to play a role in protein synthesis, cell adhesion, cell proliferation, cell differentiation, microtubule dynamics and cell motility.Synonyms: Factor A, GSK-3 alpha, GSK3A, Glycogen synthase kinase-3 alpha
Gene ID:	2931
NCBI Accession:	NP_063937
UniProt:	P49840
Pathways:	PI3K-Akt Signaling, WNT Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, cAMP Metabolic Process, Cellular Glucan Metabolic Process, Regulation of Muscle Cell Differentiation, Regulation of G-Protein Coupled Receptor Protein Signaling, ER-Nucleus Signaling, Regulation of Carbohydrate Metabolic Process, BCR Signaling, Warburg Effect

Application Details

Application Notes:	Western Blot: 1: 500approx. 1: 1000. Immunohistochemistry: 1: 50approx. 1: 100. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Concentration:	1.0 mg/mL
Buffer:	PBS(without Mg2+ and Ca2+), pH 7.4 containing 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.

Handling

Storage:	-20 °C

Images

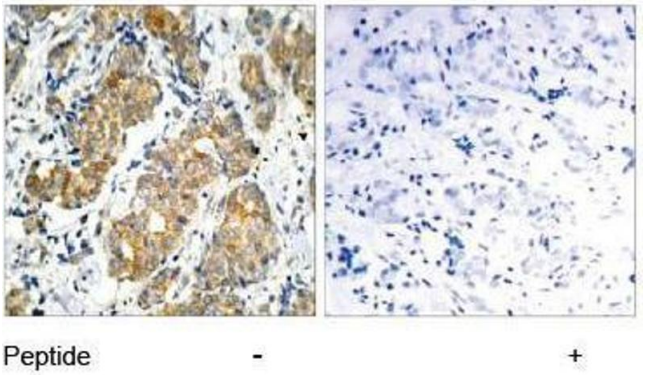

Image 1.

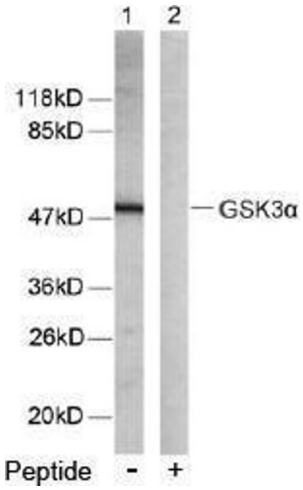

Image 2.

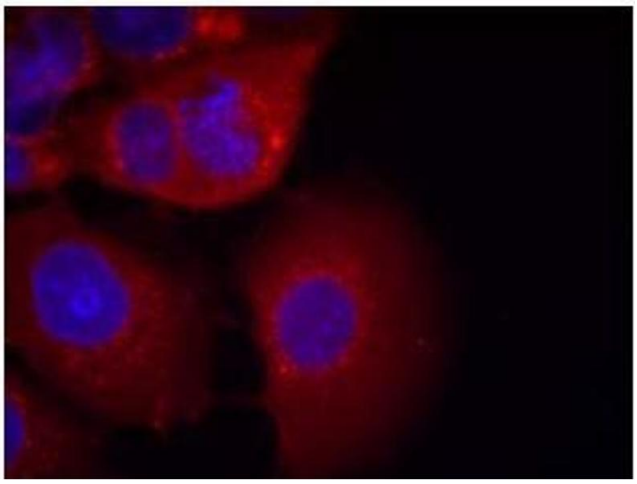

Image 3.

Please check the product details page for more images. Overall 4 images are available for ABIN197104.