

GSK3a(Phospho-Ser21) Antibody

Catalog No: #11007

Package Size: #11007-1 50ul #11007-2 100ul

Description

Product Name	GSK3a(Phospho-Ser21) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of GSK3a only when phosphorylated at serine 21 and does not detect GSK-3b when phosphorylated at Ser9.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 21 (T-S-S(p)-F-A) derived from Human GSK3a.
Conjugates	Unconjugated
Target Name	GSK3a
Modification	Phospho
Other Names	Factor A; GSK-3 alpha; kinase GSK3-alpha
Accession No.	Swiss-Prot: P49840NCBI Protein: NP_063937.2
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

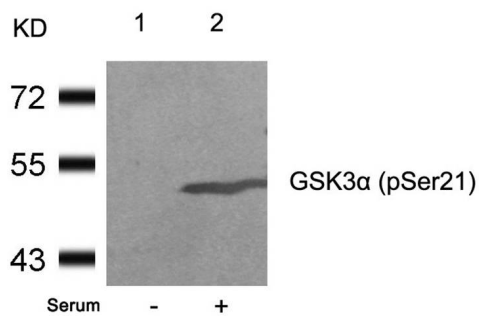
Predicted MW: 51kd

Western blotting: 1:500~1:1000

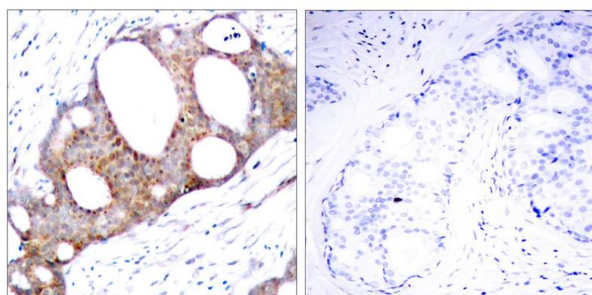
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

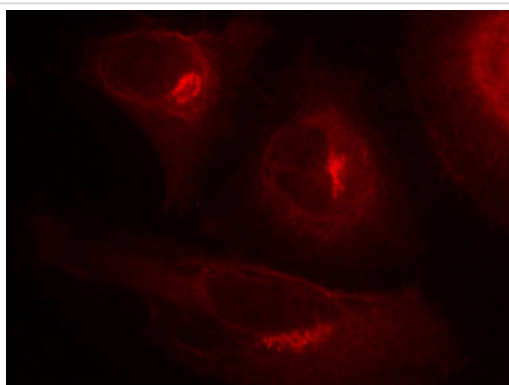
Images



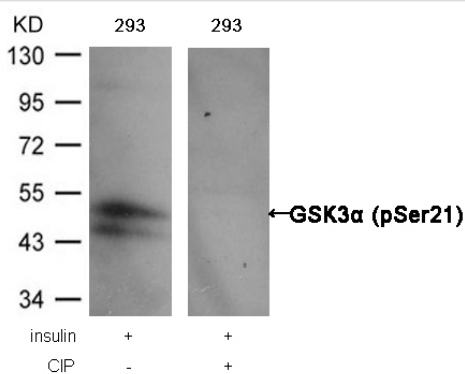
Western blot analysis of extracts from 293 cells untreated(lane 1) or treated with serum(lane 2) using GSK3α(Phospho-Ser21) Antibody #11007.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using GSK3α(Phospho-Ser21) Antibody #11007(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic staining using GSK3α(Phospho-Ser21) Antibody #11007.



Western blot analysis of extracts from 293 cells, treated with insulin or calf intestinal phosphatase (CIP), using GSK3α (Phospho-Ser21) Antibody #11007.

Background

Implicated in the hormonal control of several regulatory proteins including glycogen synthase, MYB and the transcription factor JUN.

Barry FA, et al. (2003) FEBS Lett. 553(1-2): 173-178.

Koivisto L, et al. (2003) J Cell Sci. 116(Pt 18): 3749-3760.

Welsh G I, et al. (1996) Trends Cell Biol. 6:274-279.

Srivastava A K, et al. (1998) Mol. Cell. Biochem. 182: 135-141.

Published Papers

Dan Liu, Yi Huang, Jing Zeng et al., Down-regulation of JAK1 by RNA interference inhibits growth of the lung cancer cell line A549 and interferes with the PI3K/mTOR pathway., Journal of Cancer Research and Clinical Oncology, 137(11):1629-1640(2011)

[PMID:21861134](#)

et al., Down-regulation of JAK1 by RNA interference inhibits growth of the lung cancer cell line A549 and interferes with the PI3K/mTOR pathway. In J Cancer Res Clin Oncol

on 2011 Nov by Dan Liu, Yi Huang, et al..PMID:21861134, , (2011)

[PMID:21861134](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.