

GSK3 α / β (Phospho-Tyr279/216) Antibody

Catalog No: #11301

Package Size: #11301-1 50ul #11301-2 100ul

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

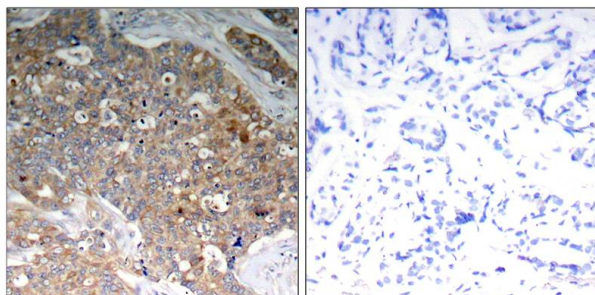
Description

Product Name	GSK3 α / β (Phospho-Tyr279/216) 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
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of GSK3 α / β only when phosphorylated at tyrosine 279/216.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 279/216 (V-S-Y(p)-I-C) derived from Human GSK3 α / β .
Conjugates	Unconjugated
Target Name	GSK3 α / β
Modification	Phospho
Other Names	Factor A; GSK-3 α /beta; kinase GSK3- α /beta
Accession No.	Swiss-Prot:P49840Gene ID:2931
Concentration	1.0mg/ml
Formulation	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

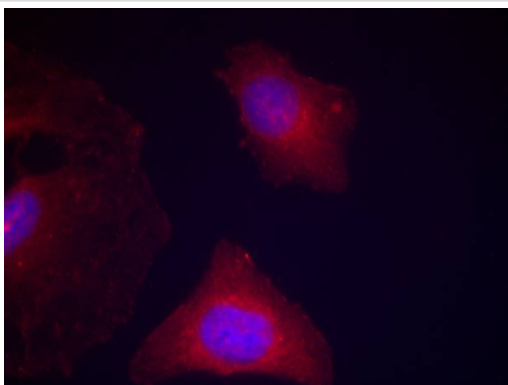
Application Details

WB 1:500 - 1:1000, IHC 1:100 - 1:200

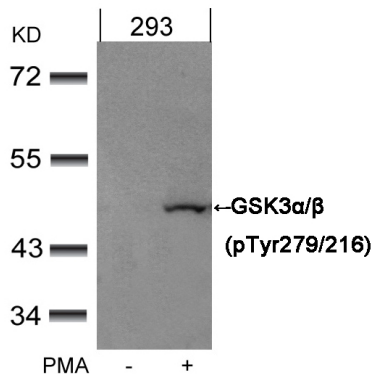
Images



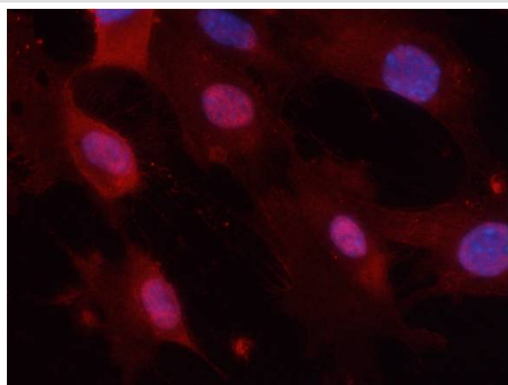
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using GSK3 α / β (Phospho-Tyr279/216) Antibody #11301 (left) or the same antibody preincubated with blocking peptide #51301 (right).



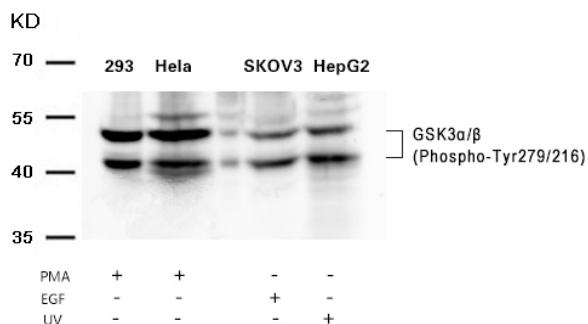
Immunofluorescence staining of methanol-fixed HeLa cells using GSK3α/β(Phospho-Tyr279/216) Antibody #11301.



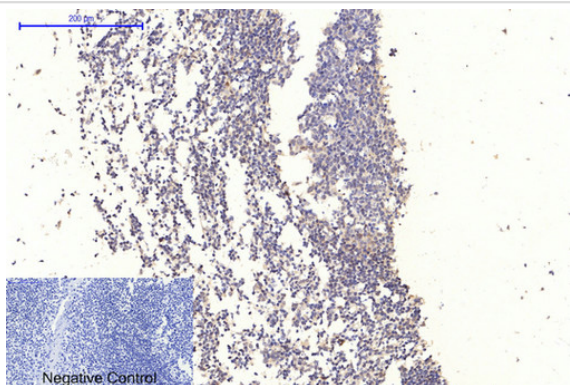
Western blot analysis of extracts from 293 cells untreated or treated with PMA using GSK3α/β(Phospho-Tyr279/216) Antibody #11301.



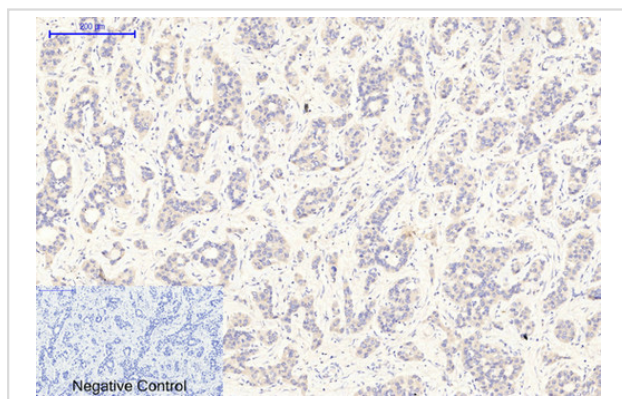
Immunofluorescence staining of methanol-fixed MEF cells using GSK3α/β(Phospho-Tyr279/216) Antibody #11301.



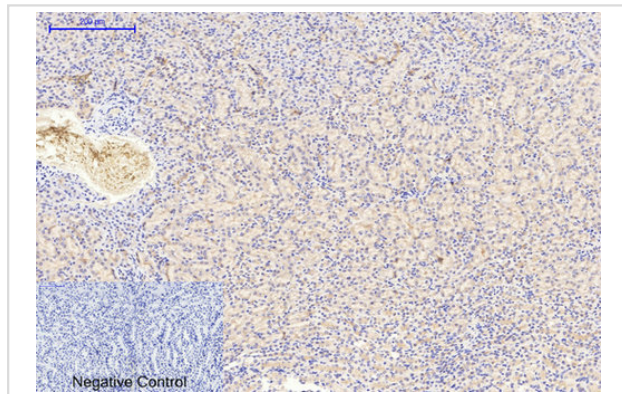
Western blot analysis of extracts of various cell lines, using GSK3α/β(Phospho-Tyr279/216) Antibody #11301.



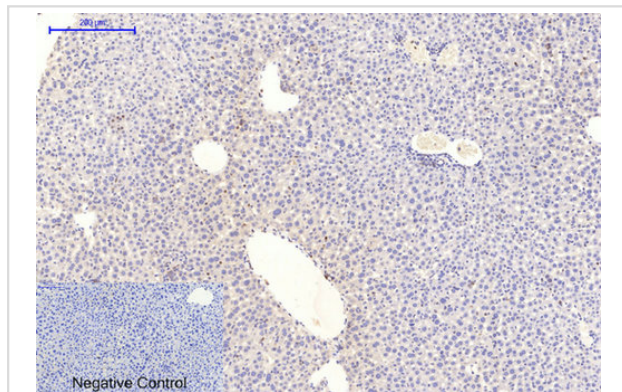
Immunohistochemical analysis of paraffin-embedded Human-Tonsil tissue. 1, GSK3α/β (phospho Tyr279/216) Polyclonal Antibody was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval (>98°C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



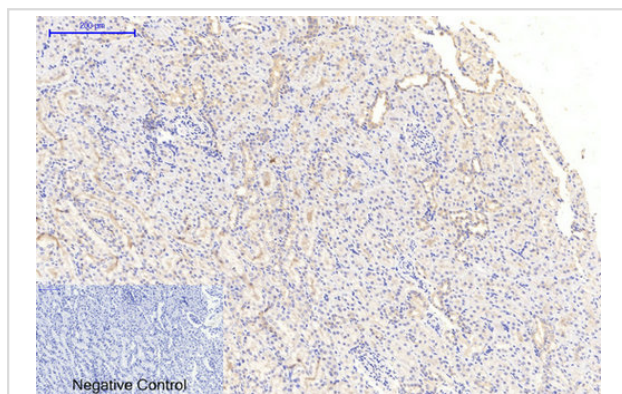
Immunohistochemical analysis of paraffin-embedded Human-liver-cancer tissue. 1,GSK3α/β (phospho Tyr279/216) Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



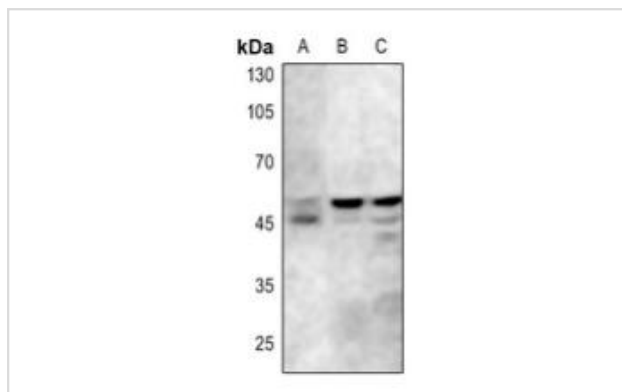
Immunohistochemical analysis of paraffin-embedded Mouse-kidney tissue. 1,GSK3α/β (phospho Tyr279/216) Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Mouse-liver tissue. 1,GSK3α/β (phospho Tyr279/216) Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Immunohistochemical analysis of paraffin-embedded Rat-kidney tissue. 1,GSK3α/β (phospho Tyr279/216) Polyclonal Antibody was diluted at 1:200(4°C,overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:200(room tempeRature, 30min). Negative control was used by secondary antibody only.



Western blot analysis of GSK3 alpha/beta (Phospho-Y279/216) expression in mouse testis (A), rat testis (B), rat spleen (C) whole cell lysates.

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],

Published Papers

Hirakawa Hiroshi, Nakayama Toshiyuki, Shibata Kenichiro et al., Association of cellular localization of glycogen synthase kinase 3beta in the digestive tract with cancer development., *Oncology Reports*, 22(3), 481-485(2009)

[PMID:19639192](#)

Song Chen, Ai-ran Liu, Feng-mao An et al., Amelioration of neurodegenerative changes in cellular and rat models of diabetes-related Alzheimer's disease by exendin-4, *AGE*, 34(5):1211-1218 (2012)

[PMID:21901364](#)

et al., Amelioration of neurodegenerative changes in cellular and rat models of diabetes-related Alzheimer's disease by exendin-4. In *Age (Dordr)* on 2012 Oct by Song Chen,

Ai-ran Liu, et al..PMID:21901364, , (2012)

[PMID:21901364](#)

et al., Phosphoproteome analysis reveals an important role for glycogen synthase kinase-3 in perfluorododecanoic acid-induced rat liver toxicity. In *Toxicol Lett* on 2013 Mar 27 by Hongxia Zhang, Junjie Hou, et al..PMID: 23353032, , (2013)

[PMID:23353032](#)

et al., Activation of GSK3 ϵ Y by Sirt2 is required for early lineage commitment of mouse embryonic stem cell. In *PLoS One* on 2013 Oct 18 by Xiaoxing Si, Wen Chen, et al..PMID: 24204656, , (2013)

[PMID:24204656](#)

et al., Herpes Simplex Virus type-1 infection induces synaptic dysfunction in cultured cortical neurons via GSK-3 activation and intraneuronal amyloid- ϵ Y protein accumulation. In *Sci Rep*

on 2015 Oct 21 by Roberto Piacentini, Domenica Donatella Li Puma et al ..PMID:26487282, , (2015)

[PMID:26487282](#)

et al., Ca²⁺-dependent release of ATP from astrocytes affects herpes simplex virus type 1 infection of neurons. In *Glia* on 2021 Jan by Domenica Donatella Li Puma, Maria Elena

Marcocci, et al..PMID:32818313, , (2021)

[PMID:32818313](#)

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