GSK3α/β(Phospho-Tyr279/216) Antibody

Catalog No: #11301

Package Size: #11301-1 50ul #11301-2 100ul #11301-4 25ul

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

Description

Product Name	GSK3α/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 chromatogramphy using non-phosphopeptide.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of GSK3α/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 GSK3α/β.
Target Name	GSK3α/β
Modification	Phospho-Tyr279/216
Other Names	Factor A; GSK-3 alpha/beta; kinase GSK3-alpha/beta
Accession No.	Swiss-Prot: P49840/P49841NCBI Protein: NP_063937.2/NP_001139628.1
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), 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

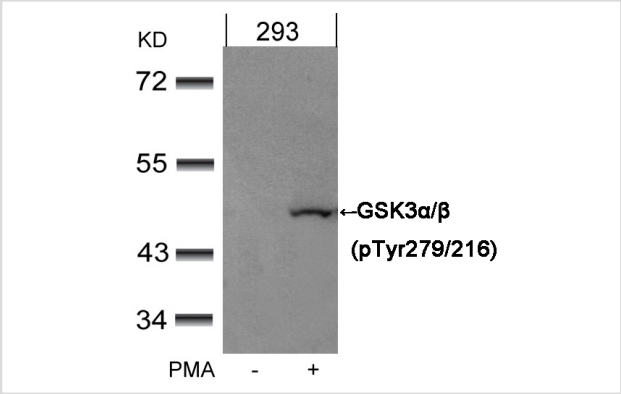
Predicted MW: 46, 51kd

Western blotting: 1:500~1:1000

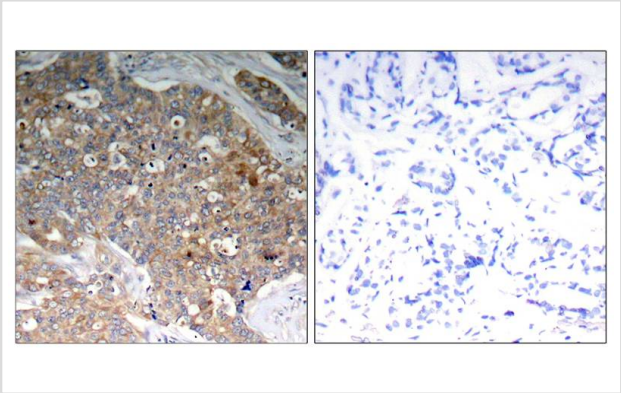
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

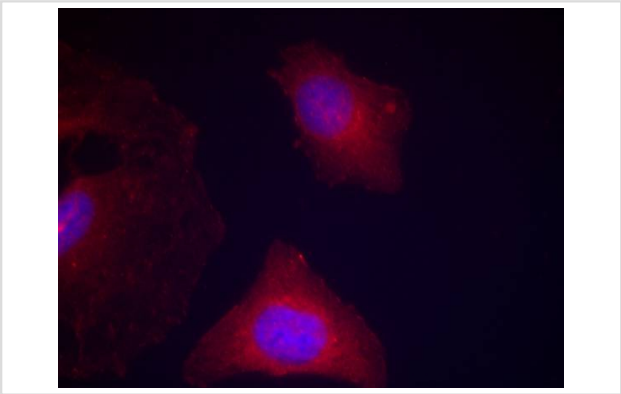
Images



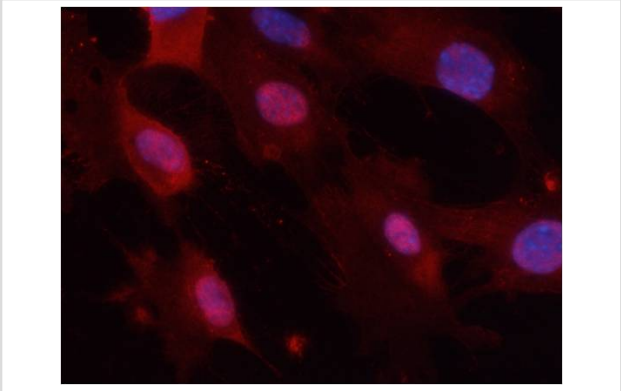
Western blot analysis of extracts from 293 cells untreated or treated with PMA using GSK3α/β(Phospho-Tyr279/216) Antibody #11301.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using GSK3α/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.



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

Background

Participates in the Wnt signaling pathway. Implicated in the hormonal control of several regulatory proteins including glycogen synthase, MYB and the transcription factor JUN. Phosphorylates JUN at sites proximal to its DNA-binding domain, thereby reducing its affinity for DNA. Phosphorylates MUC1 in breast cancer cells, and decreases the interaction of MUC1 with CTNNB1/beta-catenin. Phosphorylates CTNNB1/beta-catenin.

Chin PC, et al. Brain Res Mol Brain Res 2005 Jun 13; 137(1-2): 193-201

Takahashi-Yanaga F, et al. Biochem Biophys Res Commun 2004 Apr 02; 316(2): 411-415

Fan G, et al. J Biol Chem 2003 Dec 26; 278(52): 52432-52436

Liao X, et al. Mol Cancer Ther 2003 Nov; 2(11): 1215-1222

Published Papers

Hirakawa Hiroshi, Nakayama Toshiyuki, Shibata Kenichiro el at., 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 el at., Amelioration of neurodegenerative changes in cellular and rat models of diabetes-related AlzheimerB‘B—s disease by exendin-4, AGE, 34(5):1211B¨C1224(2012)

PMID:21901364

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