GSK $3\alpha/\beta$ (Phospho-Tyr279/216) Antibody

Catalog No: #11301

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



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

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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	IF,WB,IHC,ELISA	
Species Reactivity	Human;Mouse;Rat	
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	
	GSK3α/β.	
Conjugates	Unconjugated	
Target Name	GSK3α/β	
Modification	Phospho	
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

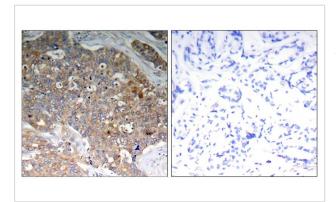
Predicted MW: 46, 51kd

Western blotting: 1:500~1:1000

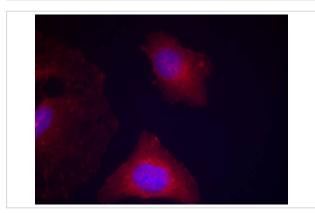
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

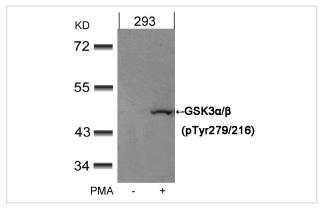
Images



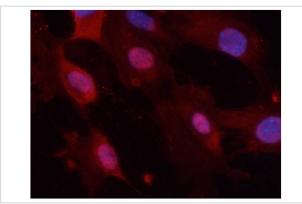
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using GSK3 α / β (Phospho-Tyr279/216) Antibody #11301 (left) or the same antibody preincubated with blocking peptide #51301 (right).



Immunofluorescence staining of methanol-fixed Hela cells using GSK3 α/β (Phospho-Tyr279/216) Antibody #11301.



Western blot analysis of extracts from 293 cells untreated or treated with PMA using GSK3 α / β (Phospho-Tyr279/216) Antibody #11301.



Immunofluorescence staining of methanol-fixed MEF cells using GSK3 α / 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.

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

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Published Papers

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el at., Activation of GSK3ε°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)

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el at., 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)

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el at., 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)

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