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35-1272: Polyclonal Antibody to GSK3 Alpha/beta(Phospho-Tyr279/216)

Clonality :	Polyclonal
Application :	IHC,WB,IF
Reactivity :	Rat,Mouse,Human
Gene :	GSK3A
Gene ID :	2931
Uniprot ID :	P49840/P49841
Format :	Purified
Alternative Name :	Factor A, GSK-3 alpha/beta, kinase GSK3-alpha/beta
Isotype :	Rabbit IgG
Immunogen Information :	Peptide sequence around phosphorylation site of tyrosine 279/216 (V-S-Y(p)-I-C) derived from Human GSK3 alpha/beta.

Description

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

Product Info

Amount :	50 µl / 100 µl
Content :	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 condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Predicted MW: 46, 51kd, Western blotting: 1:500~1:1000, Immunohistochemistry: 1:50~1:100, Immunofluorescence: 1:100~1:200

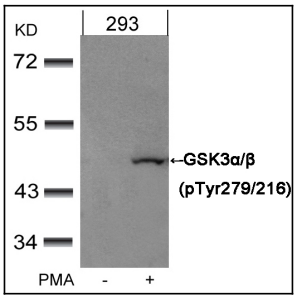

Figure 1: Western blot analysis of extracts from 293 cells untreated or treated with PMA using GSK3a/ÃƒÝ(Phospho-Tyr279/216) Antibody 35-1272 .

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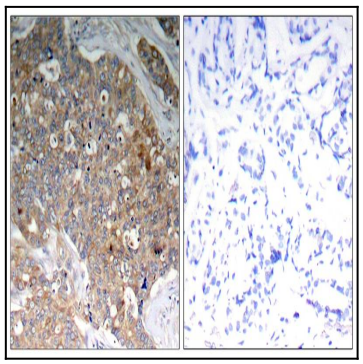

Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using GSK3a/ÃƒŸ(Phospho-Tyr279/216) Antibody 35-1272 (left) or the same antibody preincubated with blocking peptide 51301 (right).

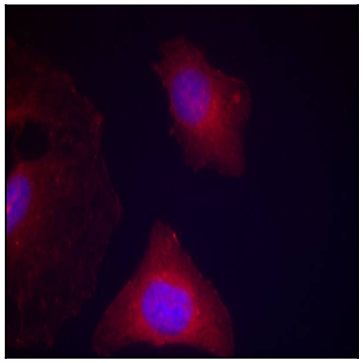

Figure 3: Immunofluorescence staining of methanol-fixed Hela cells using GSK3a/ÃƒŸ(Phospho-Tyr279/216) Antibody 35-1272 .

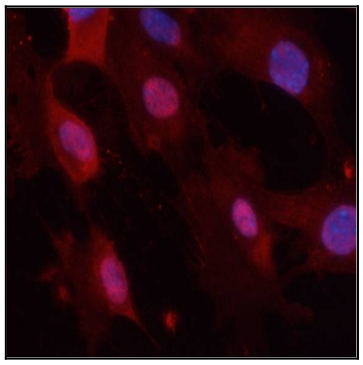

Figure 4: Immunofluorescence staining of methanol-fixed MEF cells using GSK3a/ÃƒŸ(Phospho-Tyr279/216) Antibody 35-1272 .