

GSK3b(Ab-9) Antibody

Catalog No: #21002

Package Size: #21002-1 50ul #21002-2 100ul #21002-4 25ul

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Description

Product Name	GSK3b(Ab-9) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	WB IHC IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of total GSK3b protein, this antibody may cross-react with the GSK-3a due to high sequence homology.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa.7~11 (T-T-S-F-A) derived from Human GSK3b.
Target Name	GSK3b
Other Names	Factor A, GSK-3 beta, Protein kinase GSK-3-beta, kinase GSK-3 beta,
Accession No.	Swiss-Prot: P49841NCBI Protein: NP_001139628.1
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

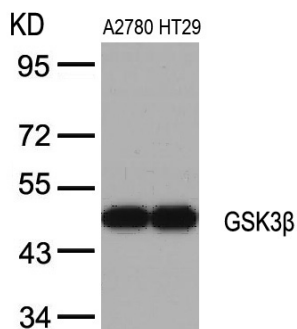
Predicted MW: 46kd

Western blotting: 1:500~1:1000

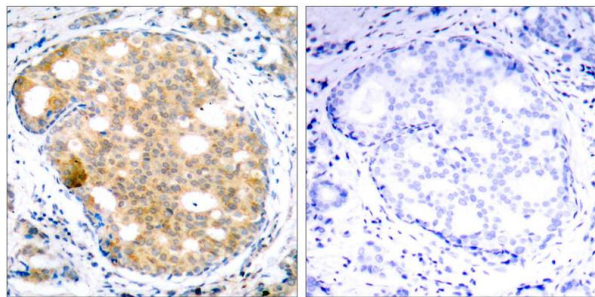
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

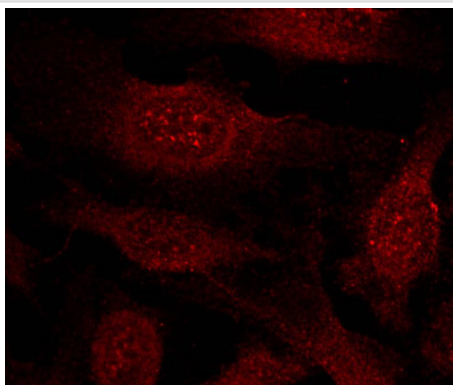
Images



Western blot analysis of extracts from A2780 and HT29 cells using GSK3b(Ab-9) Antibody #21002.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using GSK3b(Ab-9) Antibody #21002(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic and nuclear staining using GSK3b(Ab-9) Antibody #21002.

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.

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

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

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

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

Cross D. A, et al. (1995) Nature. 378: 785-789.

Published Papers

Ramiro E. Toribio, Holly A. Brown, Chad M. Novince et al., The midregion, nuclear localization sequence, and C terminus of PTHrP regulate skeletal development, hematopoiesis, and survival in mice., The FASEB Journal., 24(6):1947-1957(2010)

[PMID:20145205](#)

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