

Anti-GSK3b (Ab-9) Antibody

Catalog Number: A00791-1

About GSK3B

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.

Overview

Product Name	Anti-GSK3b (Ab-9) Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-GSK3b (Ab-9) Antibody (Catalog # A00791-1). Tested in WB, IHC, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	IF, IHC, WB
Clonality	Polyclonal
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 Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P49841

Technical Details

Immunogen	Peptide sequence around aa.7~11 (T-T-S-F-A) derived from Human GSK3b .
Predicted Reactive Species	Bovine, Mammalian
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG

Form	Liquid
Concentration	1 mg/ml
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Suggested Dilutions	<p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Predicted MW: 46kd</p> <p>Western blotting: 1:500~1:1000</p> <p>Immunohistochemistry: 1:50~1:100</p> <p>Immunofluorescence: 1:100~1:200</p>

Anti-GSK3b (Ab-9) Antibody (A00791-1) Images

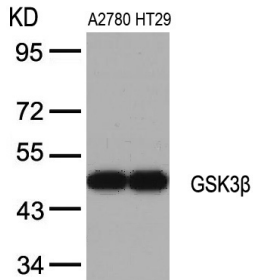
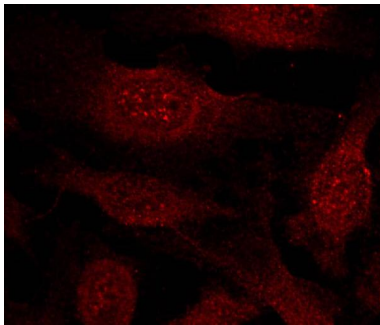


Figure 1. Western blot analysis of GSK3B using anti-GSK3B antibody (A00791-1).
Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.
After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GSK3B antigen affinity purified polyclonal antibody (Catalog # A00791-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-Rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # SA1022) with Tanon 5200 system. A specific band was detected for GSK3B.



Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic and nuclear staining using GSK3b(Ab-9) Antibody #A00791-1.

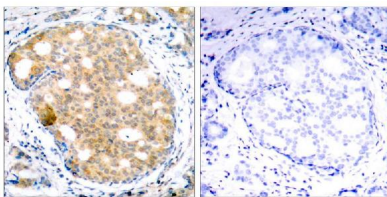


Figure 2. IHC analysis of GSK3B using anti-GSK3B antibody (A00791-1).
GSK3B was detected in paraffin-embedded section. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-GSK3B Antibody (A00791-1) overnight at 4°C. Biotinylated goat anti Rabbit IgG antibody was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC)(Catalog # SA1022) with DAB as the chromogen.

3 Publications Citing This Product

1. PubMed ID: 10.4103/0973-1296.182174, Epicatechin Plus Treadmill Exercise are Neuroprotective Against Moderate-stage Amyloid Precursor Protein/Presenilin 1 Mice
2. PubMed ID: 30169428, GSK β may be involved in hippocampal mossy fiber sprouting in the pentylenetetrazole-kindling model

3. PubMed ID: 25187832, Progesterone alleviates hypoxic-ischemic brain injury via the Akt/GSK-3 β signaling pathway

Visit bosterbio.com/anti-gsk3b-ab-9-antibody-a00791-1-boster.html to see all 3 publications.

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