

Product Datasheet

GSK-3 beta [p Tyr279, p Tyr216] Antibody - BSA Free NB100-81946

Unit Size: 0.05 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NB100-81946

GSK-3 beta [p Tyr279, p Tyr216] Antibody - BSA Free

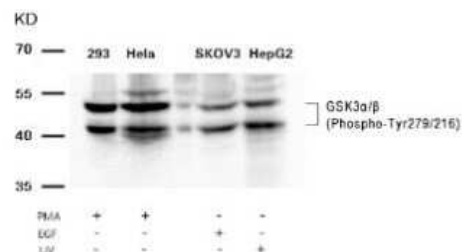
Product Information	
Unit Size	0.05 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol
Target Molecular Weight	46 kDa

Product Description	
Host	Rabbit
Gene ID	2932
Gene Symbol	GSK3B
Species	Human, Mouse, Rat, Mammal
Reactivity Notes	Use in Mammal reported in scientific literature (PMID:33413691)
Specificity/Sensitivity	Detects endogenous levels of GSK-3 beta only when phosphorylated at tyrosine 216/279.
Immunogen	The antiserum was produced against synthesized phosphopeptide derived from human GSK-3 beta around the phosphorylation site of tyrosine 279/216 (V-S-YP-I-C).

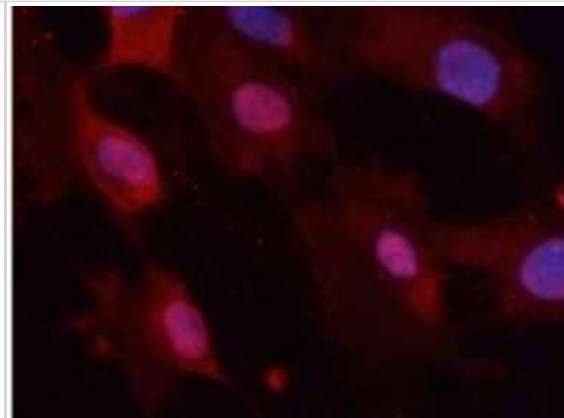
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500-1:1000, Immunohistochemistry 1:100-1:200, Immunocytochemistry/ Immunofluorescence 1:100-1:200, Immunohistochemistry-Paraffin 1:10-1:500

Images

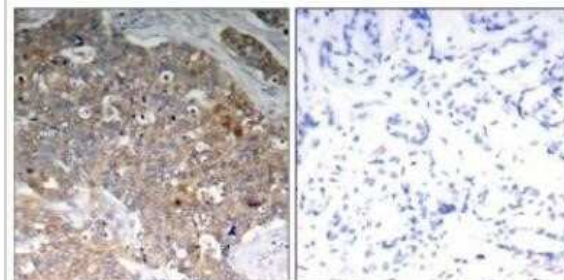
Western Blot: GSK-3 beta [p Tyr279, p Tyr216] Antibody [NB100-81946]
- Analysis of extracts of various cell lines, using GSK-3 beta (Phospho-Tyr279/216) Antibody



Immunocytochemistry/Immunofluorescence: GSK-3 beta [p Tyr279, p Tyr216] Antibody [NB100-81946] - Methanol-fixed MEF cells.

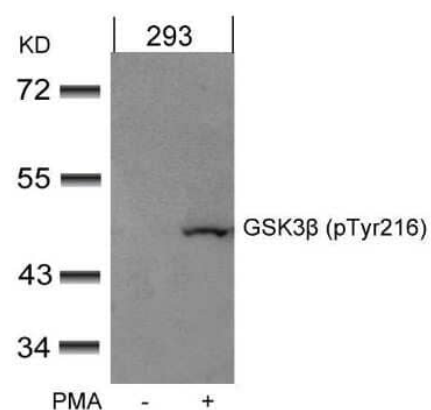


Immunohistochemistry-Paraffin: GSK-3 beta [p Tyr279, p Tyr216] Antibody [NB100-81946] - Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue, using NB100-81946 (left) or the same antibody preincubated with blocking peptide (right).

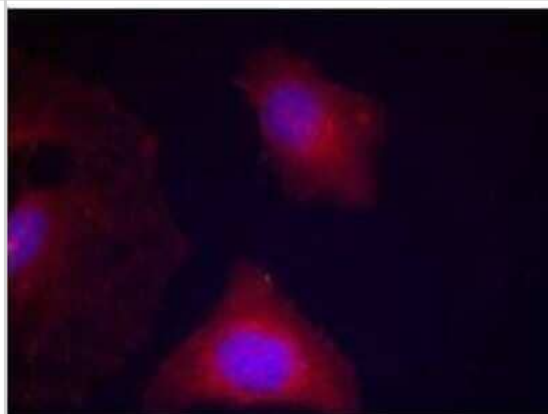


P-Peptide - +

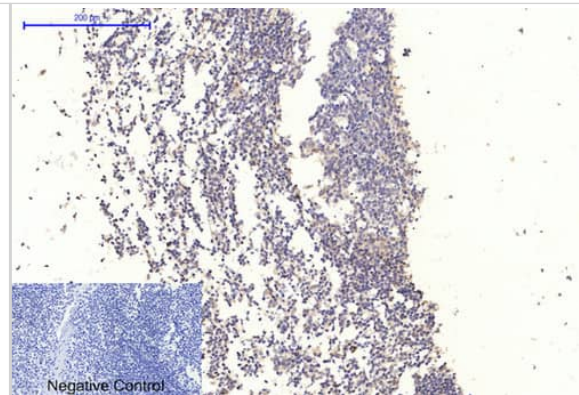
Western Blot: GSK-3 beta [p Tyr279, p Tyr216] Antibody [NB100-81946] - Analysis of extracts from 293 cells untreated or treated with PMA using GSK-3 beta (P-Tyr216) antibody.



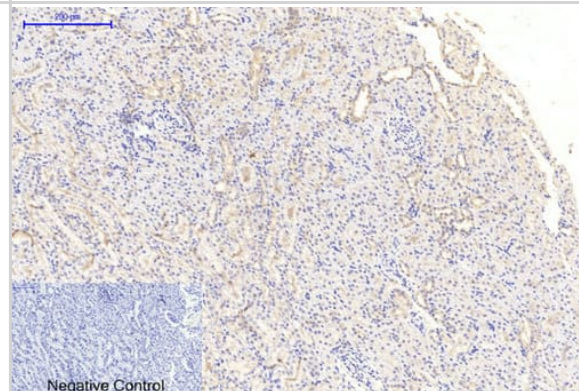
Immunocytochemistry/Immunofluorescence: GSK-3 beta [p Tyr279, p Tyr216] Antibody [NB100-81946] - Staining of Methanol-fixed Hela cells.



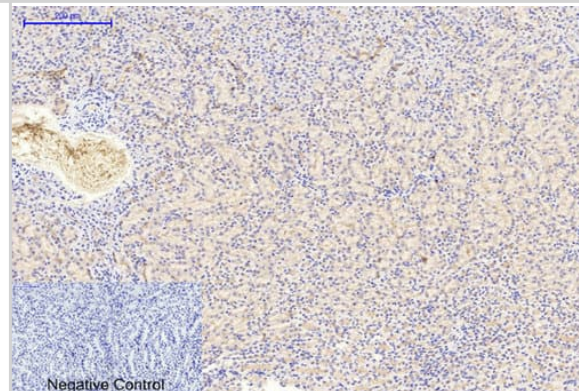
Immunohistochemistry-Paraffin: GSK-3 beta [p Tyr279, p Tyr216] Antibody [NB100-81946] - Immunohistochemical analysis of paraffin-embedded Human-Tonsil tissue. 1, NB100-81946 was diluted at 1: 200 (4C, overnight). 2, Sodium citrate pH 6. 0 was used for antibody retrieval (>98C, 20min). 3, Secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only.



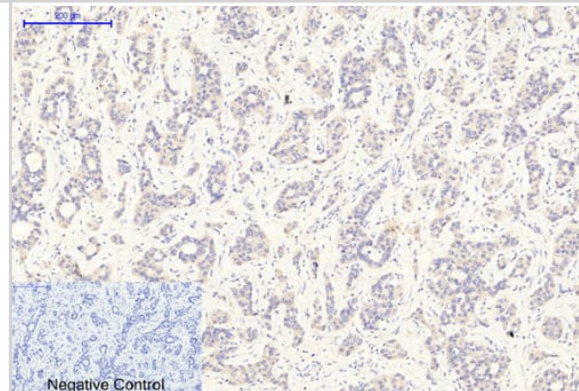
Immunohistochemistry-Paraffin: GSK-3 beta [p Tyr279, p Tyr216] Antibody [NB100-81946] - Immunohistochemical analysis of paraffin-embedded Rat-kidney tissue. 1, NB100-81946 was diluted at 1: 200 (4C, overnight). 2, Sodium citrate pH 6. 0 was used for antibody retrieval (>98C, 20min). 3, Secondary antibody was diluted at 1: 200 (room temperature, 30min). Negative control was used by secondary antibody only.



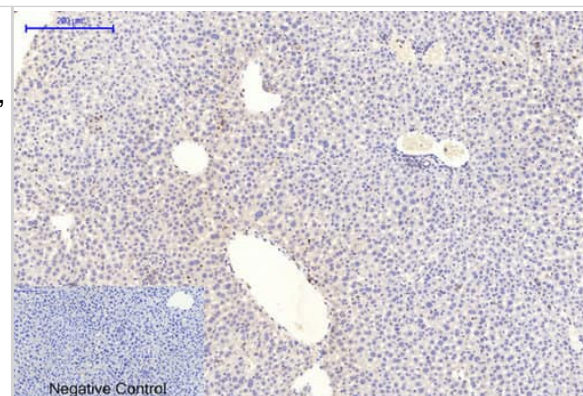
Immunohistochemistry-Paraffin: GSK-3 beta [p Tyr279, p Tyr216] Antibody [NB100-81946] - Immunohistochemical analysis of paraffin-embedded Mouse-kidney tissue. 1, NB100-81946 was diluted at 1: 200 (4C, overnight). 2, Sodium citrate pH 6. 0 was used for antibody retrieval (>98C, 20min). 3, Secondary antibody was diluted at 1: 200 (room temperature, 30min). Negative control was used by secondary antibody only.



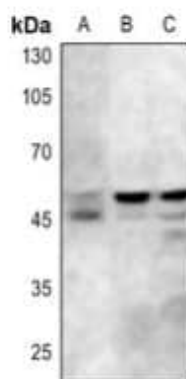
Immunohistochemistry-Paraffin: GSK-3 beta [p Tyr279, p Tyr216] Antibody [NB100-81946] - Immunohistochemical analysis of paraffin-embedded Human-liver-cancer tissue. 1, NB100-81946 was diluted at 1: 200 (4C, overnight). 2, Sodium citrate pH 6. 0 was used for antibody retrieval (>98C, 20min). 3, Secondary antibody was diluted at 1: 200 (room temperature, 30min). Negative control was used by secondary antibody only.



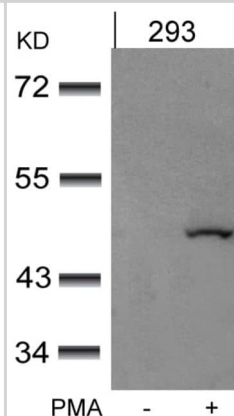
Immunohistochemistry-Paraffin: GSK-3 beta [p Tyr279, p Tyr216] Antibody [NB100-81946] - Immunohistochemical analysis of paraffin-embedded Mouse-liver tissue. 1, NB100-81946 was diluted at 1:200 (4C, overnight). 2, Sodium citrate pH 6. 0 was used for antibody retrieval (>98C, 20min). 3, Secondary antibody was diluted at 1: 200 (room temperature, 30min). Negative control was used by secondary antibody only.



Western Blot: GSK-3 beta [p Tyr279, p Tyr216] Antibody [NB100-81946] - Western blot analysis of GSK-3 beta [p Tyr279, p Tyr216] expression in mouse testis (A), rat testis (B), rat spleen (C) whole cell lysates.



Western Blot: GSK-3 beta [p Tyr279, p Tyr216] Antibody [NB100-81946] - Western blot analysis of extracts from 293 cells untreated or treated with PMA using NB100-81946



Publications

Takahiro Toshima, Mikako Yagi, Yura Do, Haruka Hirai, Yuya Kunisaki, Dongchon Kang, Takeshi Uchiumi
Mitochondrial translation failure represses cholesterol gene expression via Pyk2-Gsk3 β -Srebp2 axis Life Science Alliance 2024-05-08 [PMID: 38719751]

Xu M, Lantz MJ, Nichols RA, Li QX Anti-Neuroinflammatory Effects of a Semi-Synthetic Isoorientin-Based Glycogen Synthase Kinase-3 β Inhibitor in Lipopolysaccharide-Activated Microglial Cells ACS chemical neuroscience 2022-01-05 [PMID: 34913695]

Hsing C, Tsai C, Chen C Et Al. Pharmacologically Inhibiting Glycogen Synthase Kinase-3 β Ameliorates Renal Inflammation and Nephrotoxicity in an Animal Model of Cisplatin-Induced Acute Kidney Injury Biomedicines 2021-07-25 [PMID: 34440091] (IHC-P)

Takaichi Y, Chambers JK, Ano Y et al. Deposition of Phosphorylated α -Synuclein and Activation of GSK-3 β and PP2A in the PS19 Mouse Model of Tauopathy Journal of neuropathology and experimental neurology 2021-06-21 [PMID: 34151989]

Takaichi Y, Chambers JK, Takahashi K, et al. Amyloid beta and tau pathology in brains of aged pinniped species (sea lion, seal, and walrus) Acta neuropathologica communications 2021-01-07 [PMID: 33413691] (IHC-P, Mammal)

Wu L, Lin W, Liao Q et al. Calcium Channel Blocker Nifedipine Suppresses Colorectal Cancer Progression and Immune Escape by Preventing NFAT2 Nuclear Translocation Cell Rep 2020-10-27 [PMID: 33113363] (WB, Human)

Liu Z, Selby CP, Yang Y et al. Circadian regulation of c-MYC in mice Proc. Natl. Acad. Sci. U.S.A. 2020-08-19 [PMID: 32817420] (WB, Mouse)

Takaichi Y, Chambers JK, Inoue H et al. Phosphorylation and oligomerization of alpha-synuclein associated with GSK-3 β activation in the rTg4510 mouse model of tauopathy Acta Neuropathol Commun 2020-06-19 [PMID: 32560668] (IF/IHC, Mouse)

Wu X, Kosaraju J, Tam kY. Anti-neuroinflammatory effects of SLOH in AB-induced BV-2 microglial cells and 3xTg-AD mice involve the inhibition of GSK-3 β . Neurosci. Lett. 2018-09-29 [PMID: 30278248] (WB, Mouse)

Wu X, Kosaraju J, Zhou W, Tam KY. SLOH, a carbazole-based fluorophore, mitigates neuropathology and behavioral impairment in the triple-transgenic mouse model of Alzheimer's disease Neuropharmacology 2018-01-05 [PMID: 29309769] (Mouse)

Denysenko T, Annovazzi L, Cassoni P et al. WNT/b-catenin Signaling Pathway and Downstream Modulators in Low- and High-grade Glioma. Cancer Genomics Proteomics. 2015-12-28 [PMID: 26708597] (IHC-P, Human)



Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NB100-81946

NBL1-11362	GSK-3 beta Overexpression Lysate
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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