

# Product Datasheet

## GSK-3 alpha/beta [p Tyr216, p Tyr279] Antibody (SY26-05) NBP2-67441

Unit Size: 100 ul

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

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**NBP2-67441**

GSK-3 alpha/beta [p Tyr216, p Tyr279] Antibody (SY26-05)

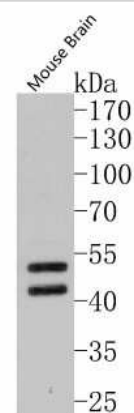
Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	SY26-05
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	TBS (pH7.4), 0.05% BSA, 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	2931
Gene Symbol	GSK3A
Species	Human, Mouse, Rat
Immunogen	Synthetic phospho-peptide corresponding to residues surrounding Tyr216 and 279 of human GSK-3 alpha/beta (SwissProt: P49840 Human; SwissProt: P49841 Human; SwissProt: Q2NL51 Mouse; SwissProt: Q9WV60 Mouse; SwissProt: P18265 Rat; SwissProt: P18266 Rat)

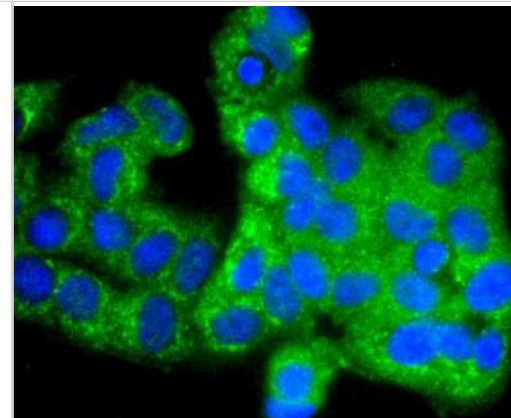
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100-1:500, Immunoprecipitation, Immunohistochemistry-Paraffin 1:200-1:800

**Images**

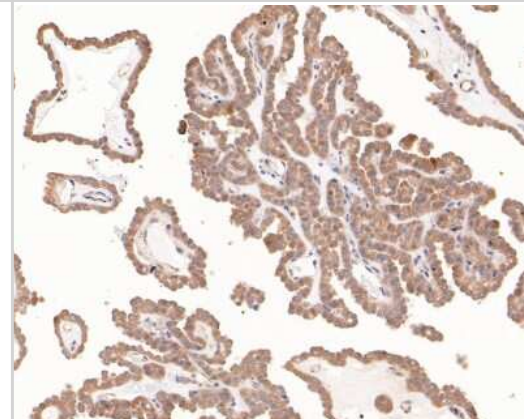
Western Blot: GSK-3 alpha/beta [p Tyr216, p Tyr279] Antibody (SY26-05) [NBP2-67441] - Analysis of GSK-3 alpha/beta [p Tyr216, p Tyr279] on mouse brain tissue lysates with Rabbit anti-GSK-3 alpha/beta [p Tyr216, p Tyr279] antibody at 1:500 dilution. Lysates/proteins at 20 ug/Lane. Predicted band size: 46/51 kDa Observed band size: 46/51 kDa Exposure time: 2 minutes; 10% SDS-PAGE gel. Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody at 1:500 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:300,000 dilution was used for 1 hour at room temperature.



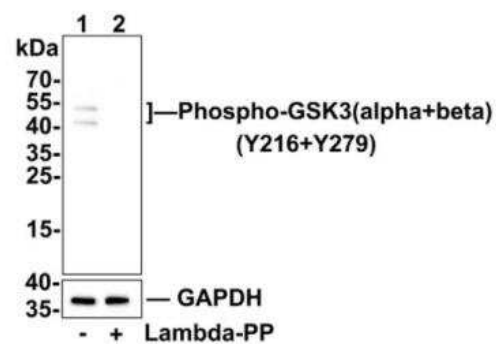
Immunocytochemistry/Immunofluorescence: GSK-3 alpha/beta [p Tyr216, p Tyr279] Antibody (SY26-05) [NBP2-67441] - Staining Phospho-GSK3(alpha+beta)(Y216+Y279) in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



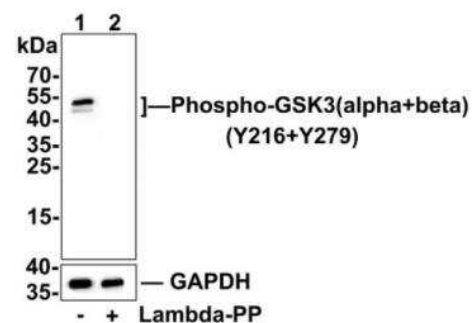
Immunohistochemistry-Paraffin: GSK-3 alpha/beta [p Tyr216, p Tyr279] Antibody (SY26-05) [NBP2-67441] - Analysis of paraffin-embedded human thyroid carcinoma tissue with Rabbit anti-Phospho-GSK3 alpha/beta [p Tyr216, p Tyr279] antibody washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody at 1/800 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



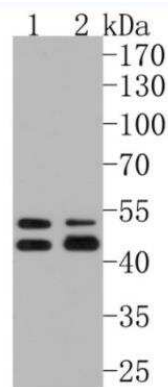
Western Blot: GSK-3 alpha/beta [p Tyr216, p Tyr279] Antibody (SY26-05) [NBP2-67441] - Analysis of Phospho-GSK3(alpha+beta) (Y216+Y279) on mouse cerebellum tissue lysates. Lane 1: mouse cerebellum tissue, whole cell lysate, 20ug/lane Lane 2: mouse cerebellum tissue treated with 2.8ug/ul lambda-PP for 30 minutes, whole cell lysates, 20ug/lane All lanes : Anti-Phospho-GSK3(alpha+beta) (Y216+Y279) antibody at 1:500 dilution. Anti-GAPDH antibody at 1:10,000 dilution. Goat Anti-Rabbit IgG H&L (HRP) at 1/200,000 dilution. Predicted band size: 47/51 kDa Observed band size: 47/51 kDa Blocking and diluting buffer: 5% BSA. Exposure time: 2 minutes



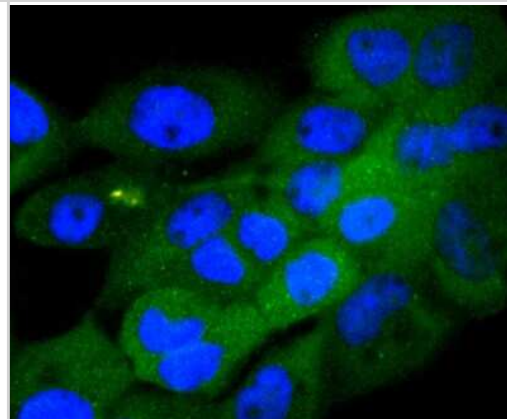
Western Blot: GSK-3 alpha/beta [p Tyr216, p Tyr279] Antibody (SY26-05) [NBP2-67441] - Analysis of Phospho-GSK3(alpha+beta) (Y216+Y279) on 293T cell lysates. Lane 1: 293T cells, whole cell lysate, 10ug/lane Lane 2: 293T cells treated with 2.8ug/ul lambda-PP for 30 minutes, whole cell lysates, 10ug/lane All lanes : Anti-Phospho-GSK3 (alpha+beta)(Y216+Y279) antibody at 1:500 dilution. Anti-GAPDH antibody at 1:10,000 dilution. Goat Anti-Rabbit IgG H&L (HRP) at 1/200,000 dilution. Predicted band size: 47/51 kDa Observed band size: 47/51 kDa Blocking and diluting buffer: 5% BSA. Exposure time: 2 minutes



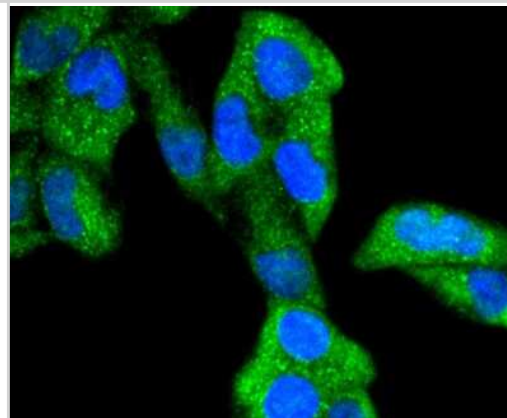
Western Blot: GSK-3 alpha/beta [p Tyr216, p Tyr279] Antibody (SY26-05) [NBP2-67441] - Analysis of Phospho-GSK3(alpha+beta) (Y216+Y279) on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:200,000 dilution was used for 1 hour at room temperature. Positive control: Lane 1: A431 cell lysate Lane 2: Hela cell lysate



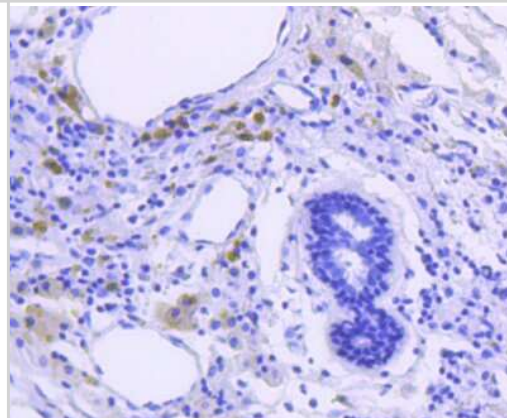
Immunocytochemistry/Immunofluorescence: GSK-3 alpha/beta [p Tyr216, p Tyr279] Antibody (SY26-05) [NBP2-67441] - Staining Phospho-GSK3(alpha+beta)(Y216+Y279) in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



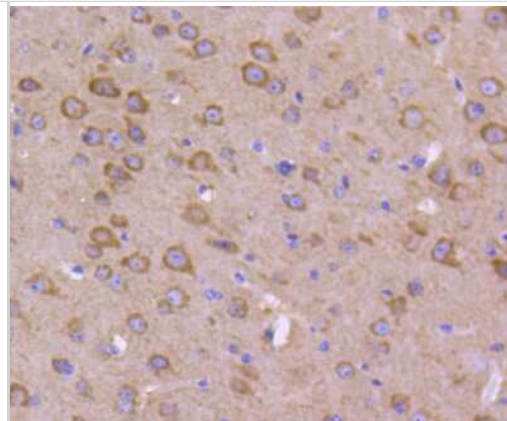
Immunocytochemistry/Immunofluorescence: GSK-3 alpha/beta [p Tyr216, p Tyr279] Antibody (SY26-05) [NBP2-67441] - Staining Phospho-GSK3(alpha+beta)(Y216+Y279) in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



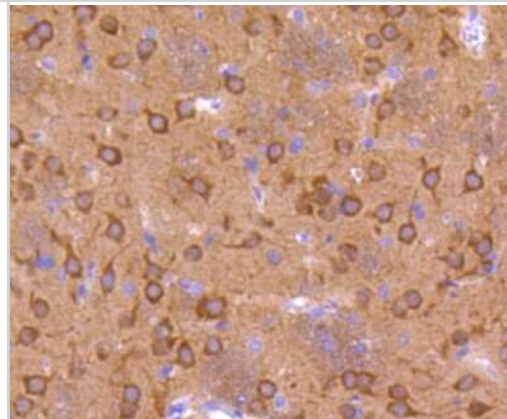
Immunohistochemistry-Paraffin: GSK-3 alpha/beta [p Tyr216, p Tyr279] Antibody (SY26-05) [NBP2-67441] - Analysis of paraffin-embedded human breast carcinoma tissue using anti-Phospho-GSK3(alpha+beta) (Y216+Y279) antibody. Counter stained with hematoxylin.



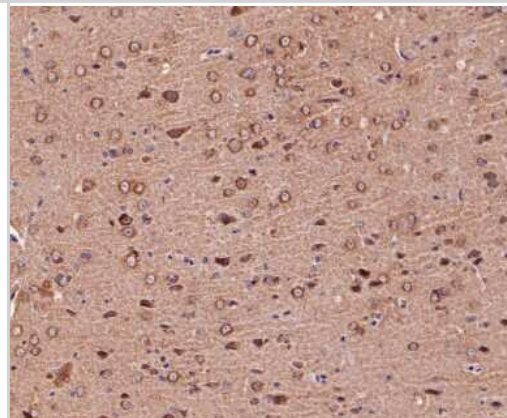
Immunohistochemistry-Paraffin: GSK-3 alpha/beta [p Tyr216, p Tyr279] Antibody (SY26-05) [NBP2-67441] - Analysis of paraffin-embedded mouse brain tissue using anti-Phospho-GSK3(alpha+beta)(Y216+Y279) antibody. Counter stained with hematoxylin.



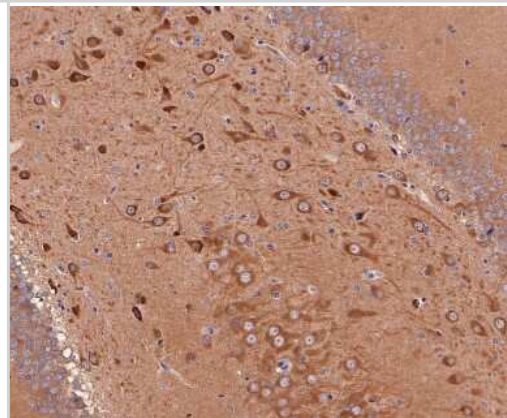
Immunohistochemistry-Paraffin: GSK-3 alpha/beta [p Tyr216, p Tyr279] Antibody (SY26-05) [NBP2-67441] - Analysis of paraffin-embedded rat brain tissue using anti-Phospho-GSK3(alpha+beta)(Y216+Y279) antibody. Counter stained with hematoxylin.



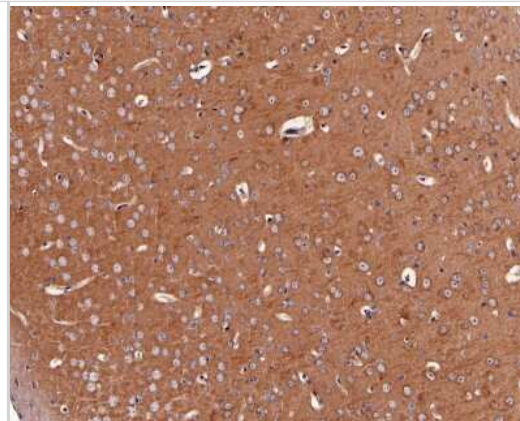
Immunohistochemistry-Paraffin: GSK-3 alpha/beta [p Tyr216, p Tyr279] Antibody (SY26-05) [NBP2-67441] - Analysis of paraffin-embedded rat brain tissue with Rabbit anti-Phospho-GSK-3 alpha/beta (p Tyr216+Y279) antibody 000 dilution. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH2O and PBS, and then probed with the primary antibody 000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



Immunohistochemistry-Paraffin: GSK-3 alpha/beta [p Tyr216, p Tyr279] Antibody (SY26-05) [NBP2-67441] - Analysis of paraffin-embedded rat hippocampus tissue with Rabbit anti-GSK-3 alpha/beta [p Tyr216, p Tyr279] antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH2O and PBS, and then probed with the primary antibody for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



Immunohistochemistry-Paraffin: GSK-3 alpha/beta [p Tyr216, p Tyr279] Antibody (SY26-05) [NBP2-67441] - Analysis of paraffin-embedded mouse brain tissue with Rabbit anti-Phospho-GSK3 alpha/beta [p Tyr216, p Tyr279] antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



## Publications

Shandilya S, Kesari KK, Ruokolainen J Vitamin K2 Modulates Organelle Damage and Tauopathy Induced by Streptozotocin and Menadione in SH-SY5Y Cells Antioxidants (Basel, Switzerland) 2021-06-20 [PMID: 34202933] (ICC/IF, Human)



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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
DYC2630-2	GSK-3 alpha/beta [p Ser196, p Ser21] [Biotin]

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