

Human GSK-3α Antibody

Monoclonal Mouse IgG_{2B} Clone # 288901

Catalog Number: MAB2986

DESCRIPTION								
Species Reactivity	Human							
Specificity	Detects human GSK-3α. In direct ELISAs, this antibody does not detect recombinant human GSK-3β.							
Source	Monoclonal Mouse IgG _{2B} Clone # 288901							
Purification	Protein A or G purified from hybridoma culture supernatant							
Immunogen	E. coli-derived recombinant human GSK-3α Gly90-Ser483 Accession # P49840.2							
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.							

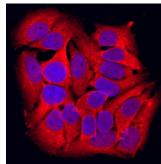
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

Recommended Concentration		Sample
Immunocytochemistry	8-25 μg/mL	See Below

DATA

Immunocytochemistry



GSK-3α in MCF-7 Human Cell Line. GSK- 3α was detected in immersion fixed MCF-7 human breast cancer cell line using Mouse Anti-Human GSK-3α Monoclonal Antibody (Catalog # MAB2986) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

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Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Glycogen Synthase Kinase-3 (GSK-3) is a serine/threonine kinase initially identified as an inhibitor of glycogen synthase. Two isoforms (GSK-3a and GSK-3b) share 85% amino acid identity. GSK-3α is inhibited by phosphorylation at S21 by Akt and other kinases. Deregulated GSK-3 has been implicated in several diseases including type II diabetes, Alzheimer's disease, bipolar disorder, and cancer.

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