Human Phospho-GSK-3β (S9) Antibody

Recombinant Monoclonal Rabbit IgG Clone # 1253C
Catalog Number: MAB8934

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human GSK-3β when phosphorylated at S9 in Western blots.
Source	Recombinant Monoclonal Rabbit IgG Clone # 1253C
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Phosphopeptide containing the human GSK-3β S9 site
Formulation	Supplied as a solution in PBS containing BSA, Glycerol and Sodium Azide. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

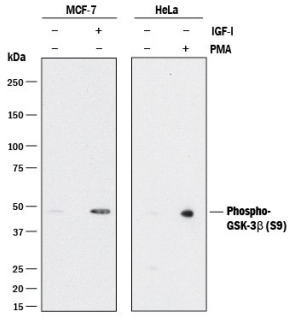
APPLICATIONS

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
Western Blot	1:1000 dilution	See Below
Immunocytochemistry	1:150-1:300 dilution	See Below
Simple Western	1:100 dilution	See Below

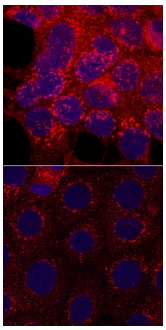
DATA

Western Blot



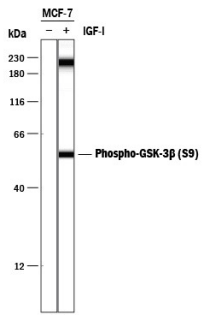
Detection of Human Phospho-GSK-3β (S9) by Western Blot. Western blot shows lysates of untreated (-) or MCF-7 human breast cancer cell line treated (+) with 100 ng/ml Recombinant Human IGF-I (Catalog # 291-G1) for 60 minutes and HeLa human cervical epithelial carcinoma cell line treated (+) with 200 nM PMA for 20 minutes. PVDF membrane was probed with 1:1000 dilution of Rabbit Anti-Human Phospho-GSK-3β Monoclonal Antibody (Catalog # MAB8934) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Phospho-GSK-3β (S9) at approximately 48 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



Phospho-GSK-3β (S9) in MCF-7 Human Cell Line. GSK-3β phosphorylated at S9 was detected in immersion fixed MCF-7 human breast cancer cell line untreated (lower panel) or treated with 100 ng/mL Recombinant Human IGF-I (Catalog # 291-G1; upper panel) using Rabbit Anti-Human Phospho-GSK-3β Monoclonal Antibody (Catalog # MAB8934) at a 1:250 dilution for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rabbit IgG Secondary Antibody (red; Catalog # NL004) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Simple Western



Detection of Human Phospho-GSK-3β (S9) by Simple Western™. Simple Western lane view shows lysates of MCF-7 human breast cancer cell line untreated (-) or treated (+) with 100 ng/mL Recombinant Human IGF-I (Catalog # 291-G1) for 60 minutes, loaded at 0.2 mg/mL. A specific band was detected for Phospho-GSK-3β (S9) at approximately 56 kDa (as indicated) using 1:100 dilution of Rabbit Anti-Human Phospho-GSK-3β Monoclonal Antibody (Catalog # MAB8934) . This experiment was conducted under reducing conditions and using the 12-230 kDa separation system. Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. 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 opening. ● 6 months, -20 to -70 °C under sterile conditions after opening.

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BACKGROUND

Glycogen Synthase Kinase-3 (GSK-3) is a serine/threonine kinase initially identified asan inhibitor of glycogen synthase. Two isoforms (GSK-3α and GSK-3β) share 85% amino acid identity. GSK-3β, inhibited by phosphorylation at S9 by Akt, is involved in energy metabolism, body pattern formation, and neuronal cell development.

PRODUCT SPECIFIC NOTICES

* Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to SDS for additional information and handling instructions.

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