

DESCRIPTION

| | |
|---------------------------|---|
| Species Reactivity | Human/Mouse/Rat |
| Specificity | Detects human, mouse, and rat GSK-3 β and the closely related GSK-3 α . |
| Source | Polyclonal Rabbit IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | <i>E. coli</i> -derived recombinant human GSK-3 β Accession # P49841 |
| Formulation | Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m filtered solution in PBS. |

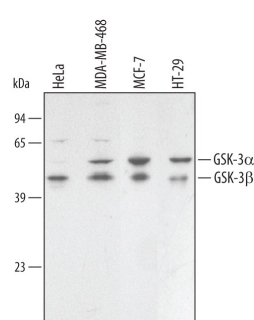
APPLICATIONS

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 | 0.1 μ g/mL | See Below |
| Immunocytochemistry | 5-15 μ g/mL | See Below |
| Intracellular Staining by Flow Cytometry | 2.5 μ g/10 ⁶ cells | See Below |
| CyTOF-ready | Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation. | |

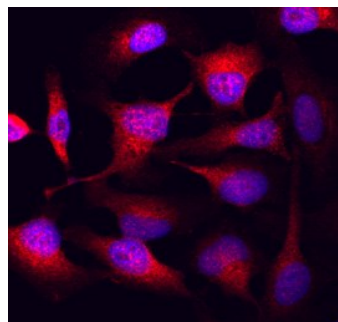
DATA

Western Blot



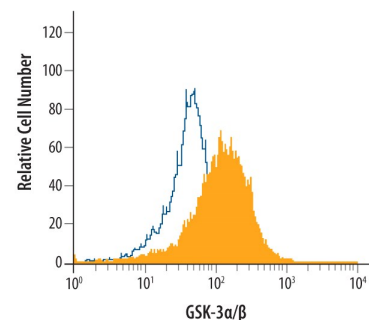
Detection of Human GSK-3 α / β by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, HT-29 human colon adenocarcinoma cell line, MDA-MB-468 and MCF-7 human breast cancer cell line. PVDF membrane was probed with 0.1 μ g/mL of Rabbit Anti-Human/Mouse/Rat GSK-3 α / β Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2157) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). Specific bands were detected for GSK-3 α / β at approximately 46 and 51 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Immunocytochemistry



GSK-3 α / β in HeLa Human Cell Line. GSK-3 α / β was detected in immersion fixed HeLa human cervical epithelial carcinoma cell line using Rabbit Anti-Human/Mouse/Rat GSK-3 α / β Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2157) at 10 μ g/mL 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](#).

Intracellular Staining by Flow Cytometry



Detection of GSK-3 α / β in HeLa Human Cell Line by Flow Cytometry. HeLa human cervical epithelial carcinoma cell line was stained with Rabbit Anti-Human/Mouse/Rat GSK-3 α / β Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2157, filled histogram) or control antibody (Catalog # AB-105-C, open histogram), followed by Allophycocyanin-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # F0111). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with saponin.

PREPARATION AND STORAGE

| | |
|--------------------------------|--|
| Reconstitution | Reconstitute at 0.2 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. <ul style="list-style-type: none"> • 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. |