



PRODUCT DATA SHEET

Product: Anti-GSK3 β mAb, clone G3

Cat. No.: MC-829 (100 μ g)

Background:

Glycogen Synthase Kinase-3 is a serine/threonine kinase responsible for the phosphorylation and consequent inactivation of glycogen synthase. It is active in the absence of signalling pathways. Insulin action stimulates the PI-3 Kinase pathway, resulting in activation of Akt, which phosphorylates and inactivates GSK-3. Inactivation of GSK-3 in turn permits rapid dephosphorylation and activation of glycogen synthase. Other GSK-3 substrates include Jun (on inhibitory sites) and eIF2B.

Specificity:

Recognizes GSK3 β .

Species Reactivity:

Human, rat, and *Xenopus laevis*. Others not tested.

Ig Isotype:

Mouse IgG_{2a}

Immunogen:

Recombinant *Xenopus laevis* GSK3 β

Format:

100 μ g protein G purified anti-GSK3 β monoclonal antibody at 1 mg/mL in 1X PBS with 0.01% sodium azide.

Storage and Stability:

Store short term 4°C, -20°C long term. Aliquot to avoid cycles of freeze/thaw.

Applications and Suggested Dilutions:

- ELISA: Use at a 1:1,000 dilution.
- Immunoprecipitation: Use at 5-10 μ g.
- Western blot: Use at a 1:1,000 dilution.
- Immunohistochemistry
- Flow cytometry

The optimal dilution for a specific application should be determined by the researcher.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.