

Monoclonal Antibody to Glycogen Synthase Kinase-3 (GSK3) - Purified

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| Catalog No.: | AM26737PU-N |
| Quantity: | 0.1 mg |
| Background: | GSK-3 has been highly conserved during evolution, and homolog genes have been identified in virtually every eukaryotic genome investigated. In mammals, GSK-3 is encoded by two genes known as gsk-3 α and gsk-3 β , encoding GSK-3 α (483 aa in humans) and GSK-3 β (433 aa) proteins with apparent molecular masses of 51 and 47kDa, respectively. Both isoforms are almost identical (98%) within their ATP binding pocket but differ in their N- and C-terminal sequences. |
| Host / Isotype: | Mouse / IgG1 |
| Recommended Isotype Controls: | SM10P (for use in human samples), SM20P (for use in rat samples), AM03095PU-N |
| Clone: | 4G-1E |
| Immunogen: | Synthetic peptide conjugate corresponding to peptide from Drosophila AA Sequence: (C) ²⁰³ KQLLHGEPNVSYICSR ²¹⁹ Y |
| Format: | State: Lyophilized affinity purified Ig fraction Buffer System: Phosphate buffered saline pH 7.2 (PBS) Preservatives: 0.01% Kathon Stabilizers: 5mg/ml bovine serum albumin (BSA) Reconstitution: Reconstitute by adding 0.5 ml distilled water. This stock solution contains 0.2 mg/ml IgG. |
| Applications: | Immunohistochemistry on paraffin sections: 5 μ g/ml (1/40). Microwave pretreatment in citrate buffer is recommended for antigen retrieval. <i>Suggested positive control:</i> Human brain. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user. |
| Specificity: | This antibody recognizes GSK-3 in most species. Monoclonal antibody 4G-1E was generated against the non-phosphorylated catalytic domain (between sub-domain VII and VIII) of the Drosophila GSK-3 / shaggy enzyme, corresponding to residues 268-284 in GSK-3 α and 205-221 in GSK-3 β , respectively. |
| Species Reactivity: | Tested: Human, Rat, Porcine |
| Add. Information: | Antigen distribution: The antigen has been described in the testis, thymus, prostate and ovary, weak in the brain, lung and kidney. |

Storage:

Store lyophilized at 2-8°C for 6 month or at -20°C long term.
After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:

1. Harwood AJ, Plyte SE, Woodgett J, Strutt H, Kay RR. Glycogen synthase kinase 3 regulates cell fate in Dictyostelium. Cell. 1995 Jan 13;80(1):139-48. PubMed PMID: 7813009.

Pictures:

Immunohistochemistry on paraffin sections: Human brain, stained with AM26737PU-N

