



MONOCLONAL ANTI-GSK-3 / Shaggy Protein Kinase Family

NB-01-0050

Volume: 100 μ l

Format: Crude Ascites fluid

Clones: 7G-2G5

Immunogen: Phosphorylated synthetic peptide coupled to ovalbumine:(C)S2GRPRTSSFAE12 P

Murine Isotype: Ig G1, k

Specificity: The phosphorylated peptide used as an immunogen derives from the N-terminal of the shaggy polypeptide and is well conserved in comparable regions of the rat GSK-3-alpha and beta enzymes (position 8 is a T in GSK-3-beta, and position 5 is an A in GSK-3-alpha). Clone 7G-2G5 specifically reacts with the peptide when phosphorylated on ser9, and detects selectively the corresponding phospho-isoform of the GSK-3/Shaggy enzyme of different origins (rat, mouse, human...) that are present in cellular extracts. Both insulin and EGF treatments of cells induce increased reactivity to this antibody as the result of an increased phosphorylation*. This phosphorylation is associated with reduced activity of the enzyme*.

References:

Sutherland, Leighton and Cohen. Biochem. J. 296, 15-19 (1993), Bianchi, Lutz and Bourouis (IGBMC, Stg), unpublished results.

Applications:

- ELISA
- Western blot
- Immunocytochemistry: under investigation
- Immunoprecipitation: not tested

Recommended dilutions: 1/500 - 1/5000

Storage:

Store at -20°C (up to 3 years)

Avoid repeat freezing and thawing cycles. Does not contain any preservative