

Product datasheet for **AM08187HR-N**

GSK3 beta (GSK3B) Mouse Monoclonal Antibody [Clone ID: 3A11]

Product data:

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| Product Type: | Primary Antibodies |
| Clone Name: | 3A11 |
| Applications: | ELISA, WB |
| Recommended Dilution: | ELISA: 1/1,000-1/2,000. Western Blot. |
| Reactivity: | Human, Mouse, Rat |
| Host: | Mouse |
| Isotype: | IgG2a |
| Clonality: | Monoclonal |
| Specificity: | This antibody is specific for GSK3 beta. |
| Formulation: | 50% Glycerol/50% PBS, pH 7.4 without preservatives. Label: HRP State: Liquid purified Ig fraction. Label: Horseradish Peroxidase |
| Conjugation: | HRP |
| Storage: | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Database Link: | Entrez Gene 2932 Human P49841 |



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| Background: | Glycogen synthase kinase 3 alpha belongs to the Ser/Thr family of protein kinases, Cdc2/cdkx subfamily; GSK3 subsubfamily. It is implicated in the hormonal control of several regulatory proteins including glycogen synthase, myb, and the transcription factor c jun. GSK3 phosphorylates glycogen synthase and thereby inactivates it. Insulin stimulates the dephosphorylation of glycogen synthase at the sites phosphorylated by GSK3 and subsequently inhibits GSK3 acutely leading to the stimulation of glycogen synthesis. GSK3 signaling is performed by two isoforms, GSK3 alpha and GSK3 beta. The two isoforms share 97% sequence similarity within their catalytic domains. GSK3 has also been shown to play a role in protein synthesis, cell adhesion, cell proliferation, cell differentiation, microtubule dynamics and cell motility. |
| Synonyms: | GSK-3 beta, Glycogen synthase kinase-3 beta, GSK3B |