

## Mouse Monoclonal Antibody to GSK3B

<b>Catalogue Number</b>	sAP-0359
<b>Target Molecule</b>	<b>Name: GSK3B</b> <b>Aliases:</b> GSK-3 $\beta$ ; GSK3-beta <b>MW: 46kDa</b> <b>Entrez Gene ID: 2932</b>
<b>Description</b>	Glycogen synthase kinase 3 (GSK-3), a serine-threonine kinase with two isoforms (alpha and beta), was originally discovered as a key enzyme in glycogen metabolism. GSK-3 was subsequently shown to function in cell division, proliferation, motility and survival. GSK-3 plays a role in a number of pathological conditions including cancer and diabetes and is increasingly seen as an important component of neurological diseases. GSK-3 phosphorylates tau and presenilin-1, which are involved in the development of Alzheimer's disease. Both isoforms of GSK-3 are ubiquitously expressed, although particularly high levels of GSK-3beta are found in the brain where it is involved in synaptic plasticity, possibly via regulation of NMDA receptor trafficking. GSK-3 phosphorylates over 40 different substrates including signaling proteins, transcription
<b>Immunogen</b>	Purified recombinant fragment of human GSK3B expressed in E. Coli.;
<b>Recitative Species</b>	Human; Mouse; Monkey; Rat;
<b>Clone</b>	MM3D10;
<b>Size and Concentration</b>	100 $\mu$ g/1mg/ml
<b>Supplied as</b>	Lyophilized Powder from 100 $\mu$ l of Ascitic fluid containing 0.03% sodium azide.
<b>Reconstitution/Storages</b>	Reconstituted with 100 $\mu$ l sterile DI H <sub>2</sub> O, at stored at 4°C or -20°C for short or long term storage
<b>Applications</b>	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: 1 to 200 - 1 to 1000; ICC: 1 to 200 - 1 to 1000; FCM: 1 to 200 - 1 to 400
<b>Shipping</b>	Regular FEDEX overnight shipment (ambient temperature)
<b>Reference</b>	1. EMBO J. 1998 Mar 2;17(5):1371-84. ; ; 2. Curr Biol. 2001 Jan 9;11(1):44-9. ; ; 3. Cancer Lett. 2003 Sep 25;199(2):201-8.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**