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# GSK3α/β (PTR2350) Mouse mAb

CatalogNo: YM4732

# Key Features

Host Species	Reactivity
Mouse	• Human, Mouse, Rat,

MW • 42kD (Observed) Isotype • IgG3,Kappa ApplicationsWB,IF,ELISA

## **Recommended Dilution Ratios**

WB 1:500-2000 IF 1:100-500 ELISA 1:1000-5000

# **Storage**

Storage\*-15°C to -25°C/1 year(Do not lower than -25°C)FormulationPBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA

## **Basic Information**

 Clonality
 Monoclonal

 Clone Number
 PTR2350

#### Immunogen Information

ImmunogenSynthesized peptide derived from human GSK3 $\alpha/\beta$  AA range: 200-300

# Target Information

#### Gene name GSK3A GSK3B

# **Protein Name** Glycogen synthase kinase-3 alpha (GSK-3 alpha) (Serine/threonine-protein kinase GSK3A) GSK3α;GSK3 A; GSK3 B; GSK3 alphal; GSK3 beta; GSK3 β;GSK3β

Organism	Gene ID	UniProt ID
Human	<u>2931</u> ;	<u>P49840; P49841;</u>
Mouse	<u>606496;</u>	<u>Q2NL51;</u>

## Cellular apical de

apical dendrite;axon;beta-catenin destruction

**Localization** complex;cytoplasm;cytosol;mitochondrion;neuronal cell body;nucleus;postsynapse;proximal dendrite;

**Function** Constitutively active protein kinase that acts as a negative regulator in the hormonal control of glucose homeostasis, Wht signaling and regulation of transcription factors and microtubules, by phosphorylating and inactivating glycogen synthase (GYS1 or GYS2), CTNNB1/beta-catenin, APC and AXIN1 . Requires primed phosphorylation of the majority of its substrates. Contributes to insulin regulation of glycogen synthesis by phosphorylating and inhibiting GYS1 activity and hence glycogen synthesis . Regulates glycogen metabolism in liver, but not in muscle (By similarity). May also mediate the development of insulin resistance by regulating activation of transcription factors. In What signaling, regulates the level and transcriptional activity of nuclear CTNNB1/beta-catenin . Facilitates amyloid precursor protein (APP) processing and the generation of APP-derived amyloid plagues found in Alzheimer disease . May be involved in the regulation of replication in pancreatic beta-cells (By similarity). Is necessary for the establishment of neuronal polarity and axon outgrowth (By similarity). Through phosphorylation of the anti-apoptotic protein MCL1, may control cell apoptosis in response to growth factors deprivation (By similarity). Acts as a regulator of autophagy by mediating phosphorylation of KAT5/TIP60 under starvation conditions which activates KAT5/TIP60 acetyltransferase activity and promotes acetylation of key autophagy regulators, such as ULK1 and RUBCNL/Pacer . Negatively regulates extrinsic apoptotic signaling pathway via death domain receptors. Promotes the formation of an anti-apoptotic complex, made of DDX3X, BRIC2 and GSK3B, at death receptors, including TNFRSF10B. The anti-apoptotic function is most effective with weak apoptotic signals and can be overcome by stronger stimulation (By similarity). Phosphorylates mTORC2 complex component RICTOR at 'Thr-1695' which facilitates FBXW7-mediated ubiguitination and subsequent degradation of RICTOR.

## Validation Data



Whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-GSK3 $\alpha$ / $\beta$ (PTR2350) antibody. The HRP-conjugated Goat anti-Mouse IgG(H + L) antibody was used to detect the antibody. Lane 1: A549

# **Contact information**

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