



Anti-GSK3B Antibody

Alternative Names: GSK-3 beta, Glycogen Synthase Kinase 3 Beta, GSK3beta isoform, Serine, threonine-protein kinase GSK3B, Glycogen synthase kinase-3 beta

Catalogue Number: AB18-10073-50ug

Size: 50 µg

Background Information

Glycogen synthase kinase-3 beta (GSK3B) is a proline-directed serine threonine kinase which has been implicated in multiple biological processes including embryonic development, cell differentiation, apoptosis and insulin response. More than 40 proteins have been reported to be phosphorylated by GSK3B including glycogen synthase, Acetyl CoA carboxylase, Axin, Cyclin D1, structural proteins like Tau, neural cell adhesion protein (NCAM) many transcription factors. GSK3B also regulates various cellular processes by binding to protein complexes.

GSK3B is expressed in almost all the tissues. However the highest expression is in brain tissue due to its vital role in the neuronal signaling. Dysregulation of GSK3B expression leads to various pathological conditions such as diabetes or insulin resistance, neuronal dysfunction and neuronal diseases. GSK3B is generally a cytosolic protein, but may also be seen in the nucleus and mitochondria.

Product Information

Antibody Type:	Polyclonal	Host:	Rabbit
Isotype:	IgG	Species Reactivity:	Mouse, Human, Rat
Immunogen:	A synthetic peptide from the N-terminal region of human Glycogen synthase kinase-3 beta		
Format:	50 µg in 50 µl PBS with 0.03% Proclin300, 50% glycerol, pH7.3.		
Storage Conditions:	6 months: 4°C. Long-term storage: -20°C. Avoid multiple freeze and thaw cycles.		
Applications:	WB WB 1:1000.		

Additional Information

Subcellular location:	Cell membrane, Cytoplasm, Nucleus	MW:	47kDa (Intended as a general guide and does not allow for all isoforms and species variations)
Gene ID	2932	Uniprot ID:	P49841