

Product Datasheet

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Phospho-GSK-3β (Ser9) Rabbit Polyclonal Antibody

Catalog #: EAB10229

Host/Isotype	Clonality	Applications	MW (kDa)	Reactivity
Rabbit IgG	Polyclonal	WB, IP, IHC-P, IF/ICC, ELISA	47	Human, Mouse, Rat

Applications Dilutions

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

WB(Western Blotting)1:500-2000IP(Immunoprecipitation)1:20-200IHC-P(Immunohistochemistry-Paraffin)1:50-300IF/ICC(Immunofluorescence/Immunocytochemistry)1:50-300ELISA(Enzyme-linked Immunosorbent Assay)1:5000-20000

Product Information

Conjugate Unconjugate

Specificity

Phospho-GSK-3β (Ser9) Rabbit Polyclonal Antibody detects endogenous levels of GSK-3β only

when phosphorylated at Ser9.

Purification Affinity purification

Concentration1mg/mlFormatLiquid

Formulation In PBS, pH 7.4, Containing 0.02% sodium azide, 0.5% BSA and 50% Glycerol

Shipping Gel Pack

Storage Storag

Aliquots may be stored at +4°C for 1-2 weeks

 UniProt ID
 P49841

 Entrez-Gene Id
 2932

Product Description

Glycogen synthase kinase 3, or GSK-3, is a serine/threonine, proline-directed kinase involved in a diverse array of signaling pathways, including glycogen synthesis and cellular adhesion, and has been implicated in Alzheimer's disease. Two forms of GSK-3, designated GSK-3 α and GSK-3 β , have been identified and differ in their subcellular localization. Tau, a microtubule-binding protein which serves to stabilize microtubules in growing axons, is found to be hyper-phosphorylated in paired helical filaments (PHF), the major fibrous component of neurofibrillary lesions associated with Alzheimer's disease. Hyperphosphorylation of Tau is thought to be the critical event leading to the assembly of PHF. Six Tau protein isoforms have been identified, all of which are phosphorylated by GSK-3. This presents the possibility that miscues in GSK-3 signaling contribute to the onset of Alzheimer's disease.