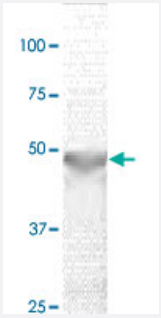
GSK3B polyclonal antibody

Catalog # PAB12690 Size 100 ug

Applications



Western Blot (Cell lysate)

The NIH/3T3 cell lysate derived was resolved onto 10% SDS-PAGE, transferred onto NC membrane, and followed by an immunoblotting with GSK3B polyclonal antibody (Cat # PAB12690) at 1 : 500.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of GSK3B.
Immunogen	A synthetic peptide corresponding to residues surrounding S9 of human GSK3B.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody recognizes GSK3B (Paired Ser9) without phosphorylated site at Serine 9. It does not cross-react with phosphospecific peptides.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	Western Blot (0.1-1 ug/mL) ELISA (0.01-0.1 ug/mL) Immunoprecipitation (2-5 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In TBS, pH 7.2 (BSA, 10% Proclin300)

Storage Instruction	Store at 4°C. For long term storage store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

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- Immunohistochemistry
- Immunoprecipitation
- Enzyme-linked Immunoabsorbent Assay

Gene Info — GSK3B

Entrez GeneID	2932
Gene Name	GSK3B
Gene Alias	-
Gene Description	glycogen synthase kinase 3 beta
Omim ID	605004
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a serine-threonine kinase, belonging to the glycogen synthase kinase subfamily. It is involved in energy metabolism, neuronal cell development, and body pattern formation. Polymorphisms in this gene have been implicated in modifying risk of Parkinson disease, and studies in mice show that overexpression of this gene may be relevant to the pathogenesis of Alzheimer disease. Alternatively spliced transcript variants encoding different isoforms have been found for this gene
Other Designations	GSK3beta isoform|glycogen synthase kinase-3 beta

Publication Reference

- Highly potent and specific GSK-3beta inhibitors that block tau phosphorylation and decrease alpha-synuclein protein expression in a cellular model of Parkinson's disease.

  Kozikowski AP, Gaisina IN, Petukhov PA, Sridhar J, King LT, Blond SY, Duka T, Rusnak M, Sidhu A.

  ChemMedChem 2006 Feb; 1(2):256.

Pathway

- Axon guidance
- B cell receptor signaling pathway
- Basal cell carcinoma
- Cell cycle
- Chemokine signaling pathway
- Colorectal cancer
- Endometrial cancer
- ErbB signaling pathway
- Focal adhesion
- Hedgehog signaling pathway
- Insulin signaling pathway
- Melanogenesis
- Neurotrophin signaling pathway
- Pathways in cancer
- Prostate cancer
- T cell receptor signaling pathway
- Wnt signaling pathway

Disease

- Adenocarcinoma

- Alzheimer disease
- Amphetamine-Related Disorders
- Anorexia Nervosa
- Bipolar Disorder
- Bone Diseases
- Breast cancer
- Breast Neoplasms
- Bulimia
- Cardiovascular Diseases
- Cognition
- Dementia
- Depressive Disorder
- Diabetes Mellitus
- Disease Models
- Disease Progression
- Drug Toxicity
- Dyskinesia
- Edema
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- Hypercholesterolemia
- Lung Neoplasms
- Mood Disorders
- Movement Disorders
- Multiple Myeloma
- Neoplasm Invasiveness

- Parkinson disease
- Personality Disorders
- Personality Inventory
- Polycystic Ovary Syndrome
- Psychiatric Status Rating Scales
- Psychotic Disorders
- Pulmonary Disease
- Recurrence
- Schizophrenia
- Schizophrenic Psychology
- Sleep Deprivation
- Stomach Neoplasms
- Urinary Bladder Neoplasms
- Weight Gain
- Werner syndrome