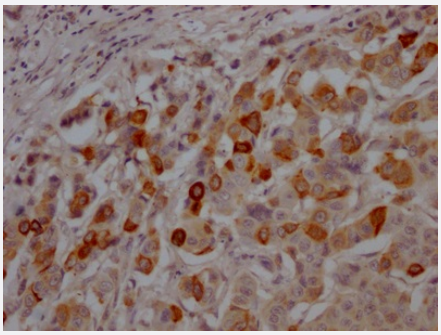
RecomAb™ Sm Size

GSK3B recombinant monoclonal antibody, clone 9G11

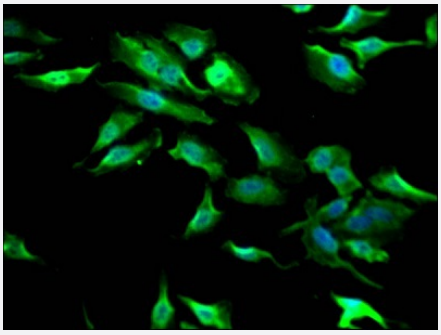
Catalog # RAB08588 Size 50 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast cancer with GSK3B recombinant monoclonal antibody on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



Immunofluorescence

Immunofluorescent staining of Hela Cells with GSK3B recombinant monoclonal antibody. The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

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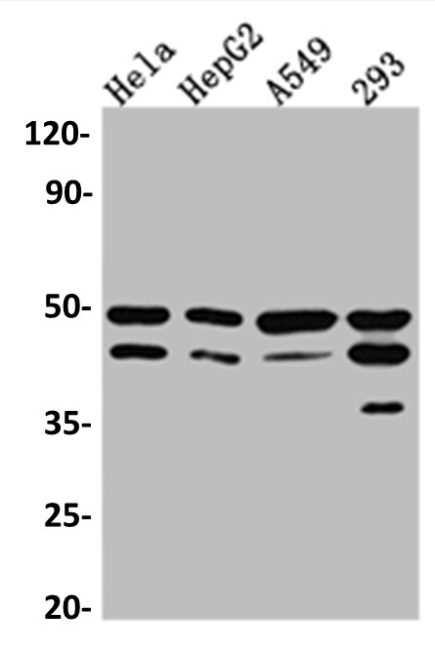

Western Blot (Cell lysate)

Western blot analysis of Hela whole cell lysate, HepG2 whole cell lysate, A549 whole cell lysate, 293 whole cell lysate with GSK3B recombinant monoclonal antibody.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human GSK3B.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human GSK3B.
Theoretical MW (kDa)	Calculated MW: 47, 4
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography purification
Isotype	IgG
Recommend Usage	ELISA Immunofluorescence (1:20-1:200) Immunohistochemistry (1:50-1:200) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150 mM NaCl, 0.02% sodium azide and 50% glycerol)

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Storage Instruction	Store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Immunofluorescence

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- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Cell lysate)

  Western blot analysis of Hela whole cell lysate, HepG2 whole cell lysate, A549 whole cell lysate, 293 whole cell lysate with GSK3B recombinant monoclonal antibody.

Gene Info — GSK3B

Entrez GeneID	2932
Protein Accession#	P49841
Gene Name	GSK3B
Gene Alias	-
Gene Description	glycogen synthase kinase 3 beta
Omim ID	605004
Gene Ontology	Hyperlink

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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

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

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- 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

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- 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

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