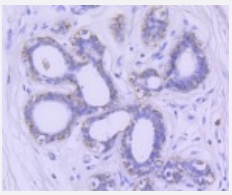
RecomAb™ Sm Size

# GSK3B recombinant monoclonal antibody

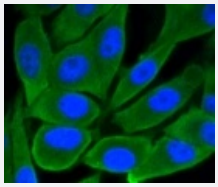
Catalog # RAB09411 Size 50 uL

## Applications



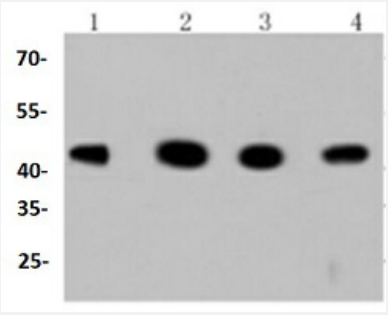
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast tissue using GSK3B recombinant monoclonal antibody (Cat # RAB09411). Counter stained with hematoxylin.



### Immunocytochemistry

Immunocytochemical staining of PC-3M cells using GSK3B recombinant monoclonal antibody (Cat # RAB09411)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.




### Western Blot (Cell lysate)

Western blot analysis of Lane1:Hela whole cell lysate Lane2:293 whole cell lysate Lane3:NIH/3T3 whole cell lysate Lane4:PC12 whole cell lysate with GSK3B recombinant monoclonal antibody (Cat # RAB09411) at 1:1000 dilution.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against GSK3B. |

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| | |
|---|---|
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against recombinant GSK3B. |
| **Theoretical MW (kDa)** | 46 |
| **Reactivity** | Human, Mouse |
| **Specificity** | This antibody detects endogenous levels of GSK3B and does not cross-react with related proteins. |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Protein A purification |
| **Isotype** | IgG |
| **Recommend Usage** | Flow Cytometry (1:50-1:100)<br>Immunocytochemistry (1:50-1:200)<br>Immunofluorescence (1:50-1:200)<br>Immunohistochemistry (1:50-1:200)<br>Western Blot (1:1000-1:2000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS, pH7.2 (50% glycerol and 0.02% sodium azide) |
| **Storage Instruction** | Store at 4°C short term.<br>Aliquot and store at -20°C long term.<br>Avoid freeze-thaw cycles. |
| **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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- Immunocytochemistry

  Immunocytochemical staining of PC-3M cells using GSK3B recombinant monoclonal antibody (Cat # RAB09411)(green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton *100/PBS.

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- Western Blot (Cell lysate)

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## 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 |
| **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

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- 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

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- 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

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- Urinary Bladder Neoplasms
- Weight Gain
- Werner syndrome

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