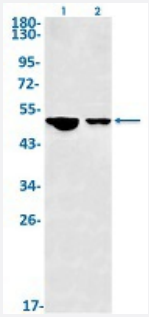
RecomAb™

# GSK3A/GSK3B (phospho Tyr216/Tyr279) recombinant monoclonal antibody, clone R01-5G6

Catalog # RAB02237 Size 100 uL

## Applications




### Western Blot

Western Blot analysis of Lane 1: C6 and Lane 2: 3T3 lysates with GSK3A/GSK3B (phospho Tyr216/Tyr279) recombinant monoclonal antibody, clone R01-5G6 (Cat # RAB02237).

## Specification

| | |
|---|---|
| **Product Description** | Rabbit recombinant monoclonal antibody raised against human GSK3A/GSK3B. |
| **Antibody Species** | Rabbit |
| **Immunogen** | Original antibody is raised against a synthetic phosphopeptide corresponding to residues surrounding Tyr216 of human GSK3A/GSK3B. |
| **Theoretical MW (kDa)** | Calculated MW: 51 kD |
| **Reactivity** | Mouse, Rat |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (CHO) expression system |
| **Purification** | Affinity purification |
| **Isotype** | IgG |

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| | |
|---|---|
| **Recommend Usage** | Immunoprecipitation(1:20)<br>Western Blot (1:500-1:1000)<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In 50 mM Tris-Glycine pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA). |
| **Storage Instruction** | Store at -20 °C.<br>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

- Immunoprecipitation
- Western Blot

Western Blot analysis of Lane 1: C6 and Lane 2: 3T3 lysates with GSK3A/GSK3B (phospho Tyr216/Tyr279) recombinant monoclonal antibody, clone R01-5G6 (Cat # RAB02237).

## Gene Info — GSK3A

| | |
|---|---|
| **Entrez GeneID** | 2931 |
| **Protein Accession#** | P49840;P49841 |
| **Gene Name** | GSK3A |
| **Gene Alias** | DKFZp686D0638 |
| **Gene Description** | glycogen synthase kinase 3 alpha |
| **Omim ID** | 606784 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | Glycogen synthase kinase 3-alpha (GSK3A; EC {2.7.1.37}) is a multifunctional protein serine kina se, homologous to Drosophila 'shaggy' (zeste-white3) and implicated in the control of several reg ulatory proteins including glycogen synthase (see GYS1, {138570}) and transcription factors (e.g., JUN, {165160}). It also plays a role in the WNT ({164820}) and PI3K (see PIK3CG, {601232}) sig naling pathways (see review by {1:Ali et al. (2001)}).[supplied by OMIM |
| **Other Designations** | - |

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## Gene Info — GSK3B

| | |
|---|---|
| **Entrez GeneID** | 2932 |
| **Protein Accession#** | P49840;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
- Chemokine signaling pathway
- Colorectal cancer
- Endometrial cancer
- ErbB signaling pathway
- Focal adhesion

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- 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
- Cognition
- Coronary Disease
- Dementia
- Depressive Disorder

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- Diabetes Mellitus
- Disease Models
- Disease Progression
- Drug Toxicity
- Dyskinesia
- Edema
- Esophageal Neoplasms
- Genetic Predisposition to Disease
- 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
- Schizophrenia
- Schizophrenic Psychology

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- Schizophrenic Psychology
- Sleep Deprivation
- Stomach Neoplasms
- Urinary Bladder Neoplasms
- Weight Gain
- Weight Gain
- Werner syndrome

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