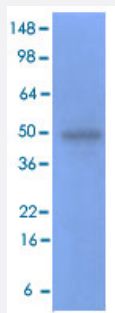


GSK3B monoclonal antibody, clone 1F7

Catalog # MAB1087

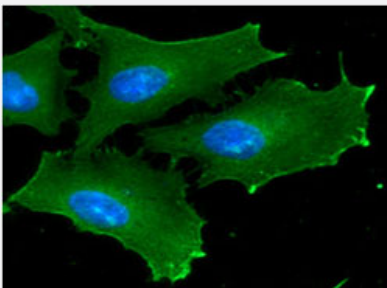
Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of HeLa cell lysate.



Immunofluorescence

Immunocytochemistry analysis of HeLa cell lysate. The cell was stained with GSK3B monoclonal antibody, clone 1F7 (Cat#MAB1087) (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Specification

Product Description	Mouse monoclonal antibody raised against partial recombinant GSK3B.
Immunogen	Recombinant protein corresponding to amino acids 341-420 of human GSK3B.
Host	Mouse
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Isotype	IgG1, kappa

Recommend Usage	ELISA Flow Cytometry Immunocytochemistry Immunofluorescence Western Blot (1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (10% glycerol, 0.02% sodium azide).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of HeLa cell lysate.

- Immunocytochemistry

- Immunofluorescence

Immunocytochemistry analysis of HeLa cell lysate. The cell was stained with GSK3B monoclonal antibody, clone 1F7 (Cat#MAB1087) (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

Gene Info — GSK3B

Entrez GeneID	2932
GeneBank Accession#	NM_002093
Protein Accession#	NP_002084
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

- [In vivo regulation of GSK3 phosphorylation by cholinergic and NMDA receptors.](#)
De Sarno P, Bijur GN, Zmijewska AA, Li X, Jope RS.
Neurobiology of Aging 2006 Mar; 27(3):413.
Application: WB-Ti, Mouse, Hippocampus, Cerebral cortex, Striatum
- [Structural basis for recruitment of glycogen synthase kinase 3beta to the axin-APC scaffold complex.](#)
Dajani R, Fraser E, Roe SM, Yeo M, Good VM, Thompson V, Dale TC, Pearl LH.
The EMBO Journal 2003 Feb; 22(3):494.
Application: Added, Recombinant protein
- [Direct, activating interaction between glycogen synthase kinase-3beta and p53 after DNA damage.](#)
Watcharasit P, Bijur GN, Zmijewski JW, Song L, Zmijewska A, Chen X, Johnson GV, Jope RS.
PNAS 2002 Jun; 99(12):7951.
Application: IP-WB, Human, H1299 cells

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](#)

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- [Movement Disorders](#)
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- [Personality Inventory](#)
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- [Psychiatric Status Rating Scales](#)
- [Psychotic Disorders](#)
- [Pulmonary Disease](#)
- [Recurrence](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Sleep Deprivation](#)

- [Stomach Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Weight Gain](#)
- [Werner syndrome](#)