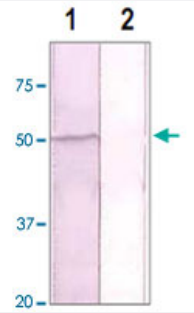
GSK3A (phospho S21) polyclonal antibody

Catalog # PAB12623 Size 100 ug

Applications



Western Blot (Cell lysate)

The NIH/3T3 cell lysate derived from conditioned culture medium was resolved onto 10% SDS-PAGE, transferred onto NC membrane, and followed by an immunoblotting with GSK3A (phospho S21) polyclonal antibody (Cat # PAB12623) at 1 : 500 (Lane 1). Lane 2 was pre-incubated with immunizing peptide.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of GSK3A.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding S21 of human GSK3A.
Sequence	RTSSFA
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody recognizes GSK3A (pS21) with a phosphorylated site at Serine 9. It does not cross-re act with non-phosphospecific peptide.
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)

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

Applications

- Immunohistochemistry
- Enzyme-linked Immunoabsorbent Assay
- Immunoprecipitation
- Western Blot (Cell lysate)

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Gene Info — GSK3A

Entrez GeneID	2931
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 kinase, homologous to Drosophila 'shaggy' (zeste-white3) and implicated in the control of several regulatory 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}) signaling pathways (see review by {1:Ali et al. (2001)}).[supplied by OMIM
Other Designations	-

Publication Reference

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- GSK3alpha exhibits beta-catenin and tau directed kinase activities that are modulated by Wnt.

  Asuni AA, Hooper C, Reynolds CH, Lovestone S, Anderton BH, Killick R.

  The European Journal of Neuroscience 2006 Dec; 24(12):3387.

- Protein kinase C betaII regulates Akt phosphorylation on Ser-473 in a cell type- and stimulus-specific fashion.

  Kawakami Y, Nishimoto H, Kitaura J, Maeda-Yamamoto M, Kato RM, Littman DR, Leitges M, Rawlings DJ, Kawakami T.

  The Journal of Biological Chemistry 2004 Nov; 279(46):47720.

  Application: WB, Mouse, Mouse bone marrow-derived mast cells

Pathway

- Chemokine signaling pathway

Disease

- Cognition
- Coronary Disease
- Genetic Predisposition to Disease
- Schizophrenia
- Schizophrenic Psychology
- Weight Gain

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