

Rabbit GSK3b (pS9) Antibody | anti-GSK3b (pS9) antibody

Rabbit anti Phospho- GSK-3beta (pSer 9)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71401	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Western Blot, ELISA

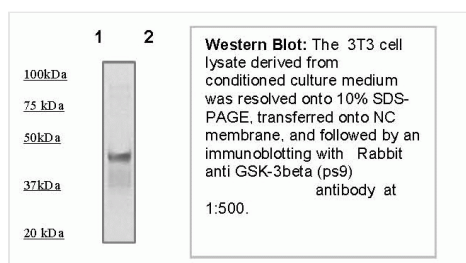
PRODUCT SYNONYMS

GSK3b (pS9); Rabbit anti Phospho- GSK-3beta (pSer 9); Rabbit anti-Phospho-GSK3b (pS9); Glycogen synthase kinase 3 beta (GSK3-b); anti-GSK3b (pS9) antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody recognizes GSK-3beta (pS9) with a phosphorylated site at Serine 9. It does not cross-react with non-phosphospecific peptide.
Purity/Purification	The Rabbit IgG is purified by site-modified Epitope Affinity Purification.
Form/Format	This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer
Concentration	Size: 100 ug/200 ul (varies by lot)
Applicable Applications for anti-GSK3b (pS9) antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Antigen Preparation	A synthetic peptide surrounding to the epitope -TTSFA- with a phosphorylation site at Ser9 of human GSK3-beta protein. This sequence is identical among human, mouse, rat, bovine, dog and chicken species.
Positive Control	3T3 cell lysate
Cellular Location	Cytoplasmic
Preparation and Storage	The antibodies are stable for 12 months from date of receipt when stored at -20 degree C to -70 degree C. The antibodies can be stored at 2 degree C-8 degree C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

IMAGES



Application Data

ADDITIONAL INFORMATION

Related Product Information for anti-GSK3b (pS9) antibody	Glycogen Synthase Kinase-3beta (GSK-3beta) is a serine/threonine kinase that affects glycogen metabolism by phosphorylating and down-regulating the activity of muscle glycogen synthase. Growth factor (such as Insulin) binds to its receptor, recruits PKB/AKT kinase to phosphorylate GSK-3beta on Serine 9, which prevents GSK-3beta from phosphorylating glycogen synthase. In contrast, the phosphorylation of tyrosine 216 in the catalytic domain increase this kinase activity to promote cell death under the absence of growth factors. GSK-3beta is also involved in Wnt signaling pathway where it forms a complex with axin, beta-catenin and adenomatous polyposis coli (APC) protein, thus the GSK-3beta inhibitor is considered as a potential approach in Alzheimer's Disease (AD) treatment.
References	Alan P. Kozikowski, et al. Highly Potent and Specific GSK-3beta Inhibitors That Block Tau Phosphorylation and Decrease alpha- Synuclein Protein Expression in a Cellular Model of Parkinson's Disease. ChemMedChem, 2006, 1 (2), 256-266.

NCBI AND UNIPROT INFORMATION

NCBI GI #	21361340
NCBI GeneID	2932
NCBI Accession #	NP_002084.2
NCBI GenBank Nucleotide #	NM_002093.2
UniProt Accession #	P49841; Q9BWH3; Q9UL47; D3DN89; Q6FI27
Molecular Weight	46 kDa
NCBI Official Full Name	glycogen synthase kinase-3 beta isoform 1
NCBI Official Synonym Full Names	glycogen synthase kinase 3 beta
NCBI Official Symbol	GSK3B
NCBI Official Synonym Symbols	GSK3B
NCBI Protein Information	glycogen synthase kinase-3 beta; GSK-3 beta; GSK3beta isoform; OTTHUMP00000165239; OTTHUMP00000165240
UniProt Protein Name	Glycogen synthase kinase-3 beta
UniProt Gene Name	GSK3B
UniProt Entry Name	GSK3B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/rabbit-human-mouse-rat-antibody/gsk3b-ps9/71401>