

AbboMax, Inc

Innovation at Work

Rabbit anti- GSK-3 α Polyclonal Antibody

Synonym: Glycogen synthase kinase 3 alpha (GSK3 α)

ANTIGEN PREPARATION

A synthetic peptide corresponding to N-terminus of human GSK3-alpha protein. This sequence is identical among human, mouse and rat.

BACKGROUND

Glycogen Synthase Kinase-3 has two isoforms, GSK-3 α and GSK3 β . GSK3 is a serine/threonine kinase that affects glycogen metabolism by phosphorylating and down-regulating the activity of muscle glycogen synthase as well as the regulation in Wnt signal pathway. GSK-3 alpha reduces the substrates beta-catenin and tau to imply an important role in Wnt signaling and tauopathies such as Alzheimer's disease..

PURIFICATION

The Rabbit IgG is purified by Epitope Affinity Purification.

SPECIFICITY

This antibody recognizes GSK-3 alpha. It reacts with human, mouse and rat. The other species are not tested.

APPLICATIONS/SUGGESTED WORKING DILUTIONS

Western Blot	0.1-1 μ g/ml
ELISA	0.01-0.1 μ g/ml
Immunoprecipitation	2-5 μ g/ml
IHC	Not tested
Flow cytometry	Not tested

FORMULATION

This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer

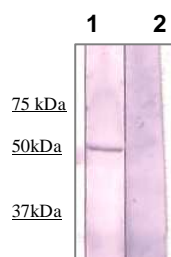
STORAGE

The antibodies are stable for 12 months from date of receipt when stored at -20°C to -70°C . The antibodies can be stored at 2°C - 8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

MOLECULAR WEIGHT:	52 kDa
POSITIVE CONTROL:	3T3 cell lysate
CELLULAR LOCATION:	Cytoplasmic

Optimal dilutions should be determined by researchers for the specific applications.

DATA ATTACHMENTS



Western Blot: The 3T3 cell lysate was resolved onto 10% SDS-PAGE, transferred onto NC membrane, and followed by an immunoblotting with Rabbit anti GSK-3 alpha (Cat#500-2914) antibody at 1:500 (lane 1). Lane 2 was pre-incubated with immunizing peptide

REFERENCES

Ayodeji A Ssuni, et al. GSK3alpha exhibits beta-catenin and tau directed kinase activities that are modulated by Wnt (2006). Eur J Neurosci. 24 (12): 3387-92.
Yuko Kawakami, et al. Protein Kinase C β II Regulates Akt Phosphorylation on Ser-473 in a Cell Type- and Stimulus-specific Fashion (2004) THE J. Biol. Chem. 279 (46): 47720-47725.

FOR RESEARCH USE ONLY.

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Order Information

Description: Rabbit anti -GSK3 α
Catalogue#: 500-2914
Lot#: See the label
Size: 100 μ g/200 μ l
Host: Rabbit
Clone: N/A
Application: ELISA, WB, IHC
Reactivity: Hu: Rt: Ms.