

Human GSK-3 beta antibody

Catalog Number: AGK0601

PRODUCT INFORMATION

Catalog number

AGK0601

Clone No.

1F7

Product type

Monoclonal Antibody

UnitProt No.

P49841

NCBI Accession No.

NP_002084

Alternative Names

glycogen synthase kinase 3 beta

PRODUCT SPECIFICATION

Antibody Host

Mouse

Reacts With

Human

Concentration

1mg/ml (determined by BCA assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

Immunogen

Recombinant human GSK3 beta (341-420aa) purified from E. coli

Isotype

IgG1 kappa

Purification Note

By protein-G affinity chromatography

Application

ELISA, WB, ICC/IF, FACS

Usage

The antibody has been tested by ELISA, Western blot, ICC/IF and FACS analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Glycogen synthase kinase 3beta (Gsk3beta) is a serine/threonine kinase involved in insulin, growth factor and Wnt signaling. Glycogen synthase kinase 3beta (Gsk3beta) is a molecular regulator of cell fate in the central nervous system and a target of the phosphatidylinositol 3-kinase (PI3k) pathway. It is an enzyme with a diverse number of actions in intracellular signaling systems, regulating neuronal plasticity, gene expression and cell survival.

General References

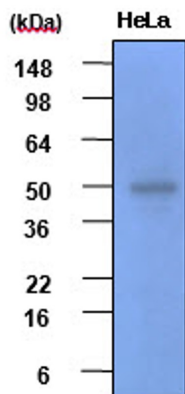
Piyajit W et al., (2002) Proc Natl Acad Sci 99(12):7951-7955.

Rana D et al., (2003) EMBO J 22(3): 494-501.

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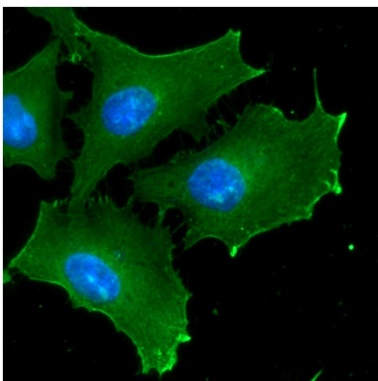
DATA

Western blot analysis (WB)



The cell lysate of HeLa(30ug) was resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human GSK3 beta (1:2000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Immunocytochemistry/Immunofluorescence (ICC/IF)

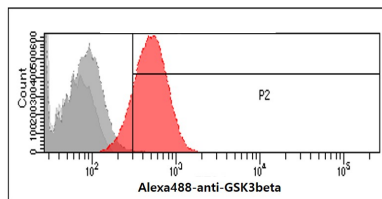


ICC/IF analysis of GSK-3 beta in HeLa cells. The cell was stained with AGK0601 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).

Flow cytometry (FACS)

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Flow cytometry analysis of GSK-3 beta in HeLa cells. The cell was stained with AGK0601 at 2-5ug for 1x10⁶cells (red). A Goat anti mouse IgG (Alexa fluor 488) was used as the secondary antibody. Mouse monoclonal IgG was used as the isotype control (dark gray), cells without incubation with primary and secondary antibody was used as the negative control (light gray).