

## GSK3α/β Polyclonal Antibody

Catalog No: YT2081

Reactivity: Human; Mouse; Rat; Drosophila; Drosophila

**Applications:** WB;IHC;IF;ELISA

Target: GSK3α/β

Fields: >>Chemokine signaling pathway;>>Dopaminergic synapse;>>Non-alcoholic

fatty liver disease;>>Shigellosis

Gene Name: GSK3A/GSK3B

**Protein Name:** Glycogen synthase kinase-3 alpha/beta

P49840/P49841

Human Gene Id: 2931

**Human Swiss Prot** 

No:

Mouse Gene ld: 606496/56637

**Rat Gene Id:** 50686/84027

Rat Swiss Prot No: P18265/P18266

**Immunogen:** The antiserum was produced against synthesized peptide derived from human

GSK3 alpha/beta. AA range:246-295

**Specificity:** GSK3α/β Polyclonal Antibody detects endogenous levels of GSK3α/β protein.

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

**Dilution:** WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

**Concentration**: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 51,46kD

**Cell Pathway:** Chemokine;

**Background:** glycogen synthase kinase 3 alpha(GSK3A) Homo sapiens This gene encodes a

multifunctional Ser/Thr protein kinase that is implicated in the control of several regulatory proteins including glycogen synthase, and transcription factors, such as JUN. It also plays a role in the WNT and PI3K signaling pathways, as well as

regulates the production of beta-amyloid peptides associated with Alzheimer's disease. [provided by RefSeq, Oct 2011],

**Function:** catalytic activity:ATP + [tau protein] = ADP + [tau protein]

phosphate., function: Implicated in the hormonal control of several regulatory

proteins including glycogen synthase, MYB and the transcription factor

JUN.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. GSK-3 subfamily.,similarity:Contains 1 protein kinase domain.,subunit:Monomer.,

Subcellular Location:

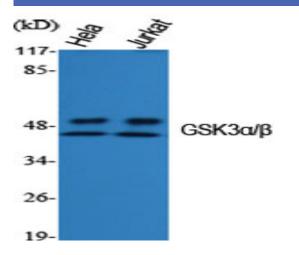
apical dendrite;axon;beta-catenin destruction

complex;cytoplasm;cytosol;mitochondrion;neuronal cell

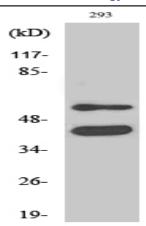
body;nucleus;postsynapse;proximal dendrite;

**Expression :** Brain, Eye, Foreskin, Lung, Pancreas, Platelet, Testis,

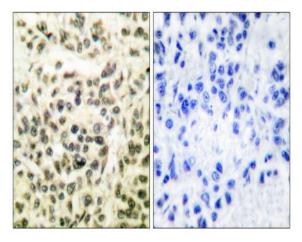
## **Products Images**



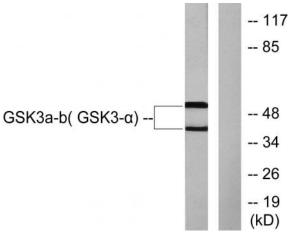
Western Blot analysis of various cells using GSK3 $\alpha/\beta$  Polyclonal Antibody diluted at 1:1000



Western Blot analysis of 293 cells using GSK3 $\alpha/\beta$  Polyclonal Antibody diluted at 1:1000



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using GSK3 alpha/beta Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from 293 cells, treated with TNF-a 20ng/ml 30', using GSK3 alpha/beta Antibody. The lane on the right is blocked with the synthesized peptide.