



# GSK3 $\alpha$ / $\beta$ Polyclonal Antibody

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog No         | BYab-30792                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Isotype            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Reactivity         | Human;Mouse;Rat;Drosophila;Drosophila                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Applications       | WB;IHC;IF;ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Gene Name          | GSK3A/GSK3B                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Protein Name       | Glycogen synthase kinase-3 alpha/beta                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Immunogen          | The antiserum was produced against synthesized peptide derived from human GSK3 alpha/beta. AA range:246-295                                                                                                                                                                                                                                                                                                                                           |
| Specificity        | GSK3 $\alpha$ / $\beta$ Polyclonal Antibody detects endogenous levels of GSK3 $\alpha$ / $\beta$ protein.                                                                                                                                                                                                                                                                                                                                             |
| Formulation        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                               |
| Source             | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Purification       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                 |
| Dilution           | WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200                                                                                                                                                                                                                                                                                                                                                                                  |
| Concentration      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Purity             | $\geq 90\%$                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Storage Stability  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Synonyms           | GSK3A; Glycogen synthase kinase-3 alpha; GSK-3 alpha; Serine/threonine-protein kinase GSK3A; GSK3B; Glycogen synthase kinase-3 beta; GSK-3 beta; Serine/threonine-protein kinase GSK3B                                                                                                                                                                                                                                                                |
| Observed Band      | 51,46kD                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Cell Pathway       | mitochondrion,cytosol,beta-catenin destruction complex,postsynapse,                                                                                                                                                                                                                                                                                                                                                                                   |
| Tissue Specificity | Brain,Eye,Foreskin,Lung,Pancreas,Platelet,Testis,                                                                                                                                                                                                                                                                                                                                                                                                     |
| 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., |
| 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                                                                                                                                                                                                                                                                                          |

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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],

**matters needing attention**

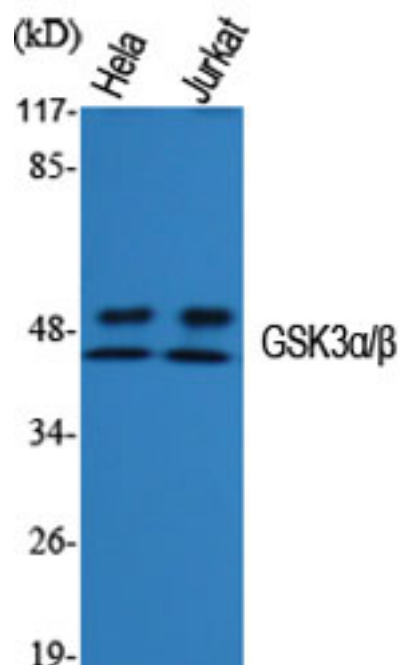
Avoid repeated freezing and thawing!

**Usage suggestions**

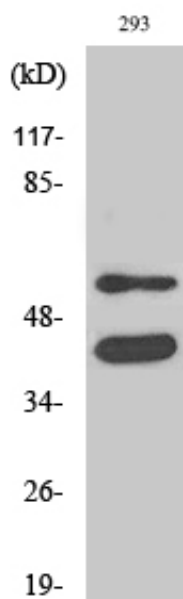
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



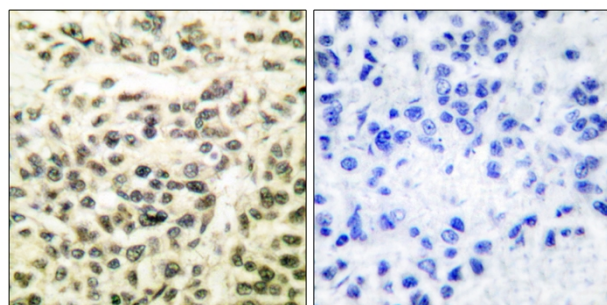
## Products Images



Western Blot analysis of various cells using GSK3α/β Polyclonal Antibody diluted at 1:1000

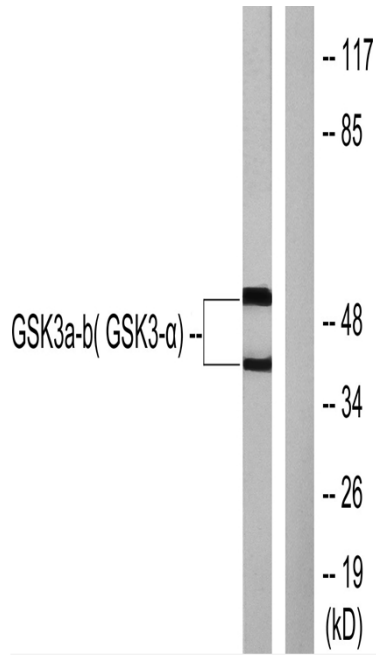


Western Blot analysis of 293 cells using GSK3α/β Polyclonal Antibody diluted at 1:1000



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using GSK3α/β Antibody. The picture on the right is blocked with the synthesized peptide.

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