

GSK3 β Rabbit pAb

CatalogNo: YT2082

Orthogonal Validated Comparable Abs 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat, Rabbit

Applications

- IF, WB, IHC, IP, ELISA

MW

- 47kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

IF 1:50-200

WB 1:500-1:2000

IHC 1:100-1:300

IP 2-5 ug/mg lysate

ELISA 1:20000

Not yet tested in other applications

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human GSK3 β . AA range:1-50**Specificity** GSK3 β Polyclonal Antibody detects endogenous levels of GSK3 β protein.

| Target Information

Gene name GSK3B

Protein Name Glycogen synthase kinase-3 beta

Organism	Gene ID	UniProt ID
Human	2932 ;	P49841 ;
Mouse	56637 ;	Q9WV60 ;
Rat	84027 ;	P18266 ;

Cellular Localization Cytoplasm . Nucleus . Cell membrane . The phosphorylated form shows localization to cytoplasm and cell membrane (PubMed:20937854). The MEMO1-RHOA-DIAPH1 signaling pathway controls localization of the phosphorylated form to the cell membrane (PubMed:20937854). .

Tissue specificity Expressed in testis, thymus, prostate and ovary and weakly expressed in lung, brain and kidney. Colocalizes with EIF2AK2/PKR and TAU in the Alzheimer disease (AD) brain.

Function Catalytic activity:ATP + [tau protein] = ADP + [tau protein] phosphate.,enzyme regulation:Inhibited when phosphorylated by AKT1.,Function:Participates in the Wnt signaling pathway. Implicated in the hormonal control of several regulatory proteins including glycogen synthase, MYB and the transcription factor JUN. Phosphorylates JUN at sites proximal to its DNA-binding domain, thereby reducing its affinity for DNA. Phosphorylates MUC1 in breast cancer cells, and decreases the interaction of MUC1 with CTNNB1/beta-catenin.,PTM:Phosphorylated by AKT1 and ILK1.,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 (By similarity). Interacts with CABYR, MUC1, NIN and PRUNE.,tissue specificity:Expressed in testis, thymus, prostate and ovary and weakly expressed in lung, brain and kidney.,

| Validation Data

| Contact information

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