

**bsm-33293M****[ Primary Antibody ]****GSK-3 Beta Mouse mAb****BioSS**  
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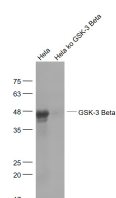
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400-901-9800

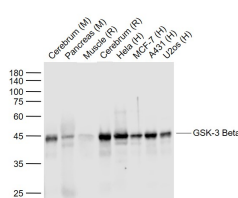
**DATASHEET****Host:** Mouse**Clonality:** Monoclonal**GeneID:** 2932**Target:** GSK-3 Beta**Purification:** affinity purified by Protein G**Concentration:** 1mg/ml

**Storage:** Size : 50ul/100ul/200ul  
0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.  
Size : 200ug (PBS only)  
0.01M PBS  
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

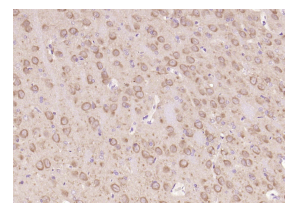
**Background:** The protein encoded by this gene is a serine-threonine kinase, belonging to the glycogen synthase kinase subfamily. It is involved in energy metabolism, neuronal cell development, and body pattern formation. Polymorphisms in this gene have been implicated in modifying risk of Parkinson disease, and studies in mice show that overexpression of this gene may be relevant to the pathogenesis of Alzheimer disease. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]

**Isotype:** IgG**CloneNo.:** 3A6**SWISS:** P49841**Applications:** WB (1:500-1000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:200-500)**Reactivity:** Human, Mouse, Rat**Predicted MW.:** 47 kDa**Subcellular Location:** Cell membrane ,Cytoplasm ,Nucleus**VALIDATION IMAGES**

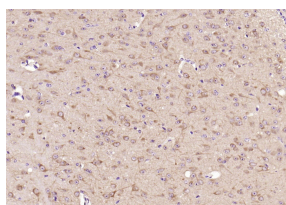
Sample: HeLa(Human) Cell Lysate at 30 ug HeLa ko GSK-3 Beta (Human) Cell Lysate at 30 ug  
Primary: Anti-GSK-3 Beta (bsm-33293M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 47 kD Observed band size: 47 kD



Sample: Lane 1: Cerebrum (Mouse) Lysate at 40 ug Lane 2: Pancreas (Mouse) Lysate at 40 ug Lane 3: Muscle (Rat) Lysate at 40 ug Lane 4: Cerebrum (Rat) Lysate at 40 ug Lane 5: HeLa (Human) Cell Lysate at 30 ug Lane 6: MCF-7 (Human) Cell Lysate at 30 ug Lane 7: A431 (Human) Cell Lysate at 30 ug Lane 8: U2os (Human) Cell Lysate at 30 ug Primary: Anti-GSK-3 Beta (bsm-33293M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 47 kD Observed band size: 45 kD



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GSK-3 Beta) Monoclonal Antibody, Unconjugated (bsm-33293M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen

**Important Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GSK-3 Beta) Monoclonal Antibody, Unconjugated (bsm-33293M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructions and DAB staining.

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## — SELECTED CITATIONS —

- **[IF=8.1]** Fei Yu. et al. Repair of Osteoporotic Bone Defects in Rats via the Sirtuin 1-Wnt/ $\beta$ -catenin Signaling Pathway by Novel Icariin/Porous Magnesium Alloy Scaffolds. *Biomaterials Research*. 2024 Dec;28:0090 IHC ;Rat. 39655164
- **[IF=6.222]** Wang, Lili. et al. Progranulin improves neural development via the PI3K/Akt/GSK-3 $\beta$  pathway in the cerebellum of a VPA-induced rat model of ASD. *Transl Psychiat*. 2022 Mar;12(1):1-14 WB ;Rat. 35318322
- **[IF=4.868]** Wang Z et al. Interaction between Endothelin-1 and Left Stellate Ganglion Activation: A Potential Mechanism of Malignant Ventricular Arrhythmia during Myocardial Ischemia. *Oxid Med Cell Longev*. 2019 May 12;2019:6508328. WB ;Dog. 31214281
- **[IF=5.25]** Junying Lan. et al. Abnormal spatiotemporal expression pattern of progranulin and neurodevelopment impairment in VPA-induced ASD rat model. *Neuropharmacology*. 2021 Sep;196:108689 WB ;Rat. 34175324
- **[IF=3.752]** Zhao-Yu Zhang. et al. Knockdown of CD146 promotes endothelial-to-mesenchymal transition via Wnt/ $\beta$ -catenin pathway. *PLOS ONE*. 2022 Aug;17(8):e0273542 WB ;Human. 36001597