bs-0023M **[Primary Antibody]**

GSK-3 beta Mouse pAb

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DATASHEET

Host: Mouse **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2932 **SWISS:** P49841

Target: GSK-3 beta

Immunogen: KLH conjugated synthetic peptide derived from human GSK-3 Beta: 1-50/420.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
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]

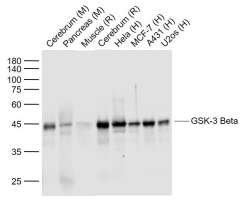
Applications: **WB** (1:500-1000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

Reactivity: Human, Mouse, Rat

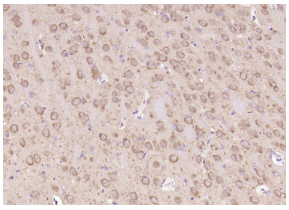
Predicted MW.: 47 kDa

Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus

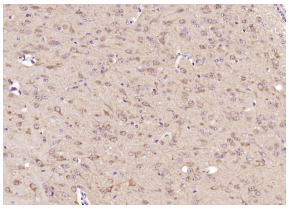
VALIDATION IMAGES



25 ug total protein per lane of various lysates (see on figure) probed with GSK-3 Beta polyclonal antibody, unconjugated (bs-0023M) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GSK-3 beta Monoclonal Antibody, Unconjugated(bs-0023M) at 1:200 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GSK-3 beta Monoclonal Antibody, Unconjugated(bs-0023M) at 1:200 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and DAB (C-0010) staining.

SELECTED CITATIONS

- **[IF=13.6]** Wei Jiang. et al. CHI3L1 signaling impairs hippocampal neurogenesis and cognitive function in autoimmune-mediated neuroinflammation. SCI ADV. 2023 Sep;9(39) WB ;Mouse. 37756391
- **[IF=8.469]** Que, Tianshi. et al. HMGA1 stimulates MYH9-dependent ubiquitination of GSK-3β via PI3K/Akt/c-Jun signaling to promote malignant progression and chemoresistance in gliomas. Cell Death Dis. 2021 Dec;12(12):1-12 WB,IF ;Human. 34887392
- **[IF=5.6]** Jiangliu Yang. et al. Baicalin Attenuates Panton–Valentine Leukocidin (PVL)-Induced Cytoskeleton Rearrangement via Regulating the RhoA/ROCK/LIMK and PI3K/AKT/GSK-3β Pathways in Bovine Mammary Epithelial Cells. INT J MOL SCI. 2023 Jan;24(19):14520 WB ;Bovine. 37833969

- **[IF=6.023]** Ling Xie. et al. Suppression of GOLM1 by EGCG through HGF/HGFR/AKT/GSK-3β/β-catenin/c-Myc signaling pathway inhibits cell migration of MDA-MB-231. Food Chem Toxicol. 2021 Nov;157:112574 WB ;human. 34536514
- **[IF=4.566]** Feng Ziqiang. et al. In Ovo Injection of CHIR-99021 Promotes Feather Follicle Development via Modulating the Wnt Signaling Pathway and Transcriptome in Goose Embryos (Anser cygnoides). FRONT PHYSIOL. 2022 May;0:811 WB ;Bird. 35669574