

**bsm-33033M****[ Primary Antibody ]****Bioss**  
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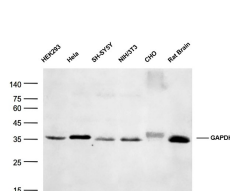
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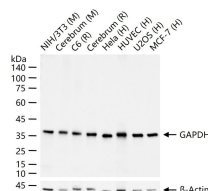
400-901-9800

**GAPDH Mouse mAb, Loading Control****DATASHEET**

<b>Host:</b> Mouse	<b>Isotype:</b> IgG	<b>Applications:</b> WB (1:5000-500000)  <b>Reactivity:</b> Human, Mouse, Rat (predicted: Rabbit, Pig, Sheep, Chicken, Dog, Hamster, Monkey)  <b>Predicted MW.:</b> 38 kDa  <b>Subcellular Location:</b> Cytoskeleton, Cytoplasm, Membrane, Nucleus
<b>Clonality:</b> Monoclonal	<b>CloneNo.:</b> 4F8	
<b>GeneID:</b> 2597	<b>SWISS:</b> P04406	
<b>Target:</b> GAPDH		
<b>Purification:</b> affinity purified by Protein G		
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> 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.		
<b>Background:</b> loading Control Glyceraldehyde 3 phosphate dehydrogenase (GAPDH) is well known as one of the key enzymes involved in glycolysis. As well as functioning as a glycolytic enzyme in cytoplasm, recent evidence suggests that mammalian GAPDH is also involved in a great number of intracellular processes such as membrane fusion, microtubule bundling, phosphotransferase activity, nuclear RNA export, DNA replication, and DNA repair. During the last decade a lot of data appeared concerning the role of GAPDH in different pathologies including prostate cancer progression, programmed neuronal cell death, age related neuronal diseases, such as Alzheimer's and Huntington's disease. GAPDH is expressed in all cells. It is constitutively expressed in almost all tissues at high levels. There are however some physiological factors such as hypoxia and diabetes that increase GAPDH expression in certain cell types. GAPDH molecule is composed of four 36kDa subunits.		

**VALIDATION IMAGES**

Sample: Lane 1: Human HEK293 cell lysates Lane 2: Human Hela cell lysates Lane 3: Human SH-SY5Y cell lysates Lane 4: Mouse NIH/3T3 cell lysates Lane 5: Hamster CHO cell lysates Lane 6: Rat Brain tissue lysates Primary: Anti-GAPDH (bsm-33033M) at 1/200000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 38 kDa Observed band size: 38 kDa



25 ug total protein per lane of various lysates (see on figure) probed with GAPDH monoclonal antibody, unconjugated (bsm-33033M) at 1:5000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

**SELECTED CITATIONS**

- **[IF=26.6]** Lei Yao. et al. NAD<sup>+</sup> biosynthesis and mitochondrial repair in acute kidney injury via ultrasound-responsive thylakoid-integrating liposomes. NAT BIOMED ENG. 2025 Jun;;1-18 WB ;Mouse,Human. 40461655
- **[IF=20.3]** Changhao Xu. et al. Magnesium ions attenuate tendon graft fibrosis during its ligamentization after ACL reconstruction through modulation of fibroblast to myofibroblast trans-differentiation by promoting PGE2 secretion. BIOACT MATER. 2025 Oct;52:474 WB ;Mouse,Human. 40599342

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

- **[IF=19]** Zhenjie Wang. et al. Synergizing Ferroptosis and Immunotherapy via a PROTAC/PDT/HPK1 Inhibitor-Loaded Nanoplatfrom for Enhanced Antitumor Efficacy. ADV FUNCT MATER. 2025 Jul;;2507906 WB ;Mouse. 10.1002/adfm.202507906
- **[IF=19]** Wenyan Yu. et al. A Multifunctional Enzyme Cascade Catalytic Nanoplatfrom for Effective Synergistic Therapy of Rheumatoid Arthritis. ADV FUNCT MATER. 2025 Mar;;2423054 WB ;Mouse. 10.1002/adfm.202423054
- **[IF=14.3]** Yangfei Zhao. et al.  $\alpha$ -Lipoic Acid Ameliorates Arsenic-Induced Lipid Disorders by Promoting Peroxisomal  $\beta$ -Oxidation and Reducing Lipophagy in Chicken Hepatocyte..Advanced Science.2025 Jan 30:e2413255. Western blot ;Chicken. 39887668