bsm-33033M **[Primary Antibody]**

GAPDH Mouse mAb, Loading Control

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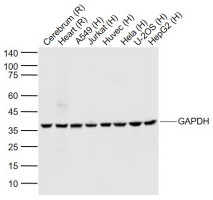
DATASHEET

Host: Mouse
Isotype: IgG
Clonality: Monoclonal
CloneNo.: 4F8
GeneID: 2597
SWISS: P04406
Target: GAPDH
Purification: affinity purified by Protein G
Concentration: 1mg/ml
Storage: Size : 50ul/100ul/500ul
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.

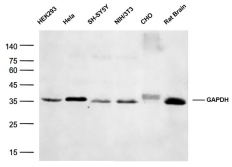
Background: oading Control
Glyceraldehyde 3 phosphate dehydrogenase (GAPDH) is well known as one of the key enzymes involved in glycolysis. As well as functioning as a glycolytic enzyme in cytoplasm, recent evidence suggests that mammalian GAPDH is also involved in a great number of intracellular proceses 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.

Applications: **WB** (1:5000-500000)
Reactivity: Human, Mouse, Rat, Hamster (predicted: Rabbit, Pig, Sheep, Chicken, Dog, Monkey)
Predicted MW.: 38 kDa
Subcellular Location: Cytoskeleton ,Cytoplasm ,Membrane ,Nucleus

VALIDATION IMAGES



Sample: Lane 1: Rat Cerebrum tissue lysates Lane 2: Rat Heart tissue lysates Lane 3: Human A549 cell lysates Lane 4: Human Jurkat cell lysates Lane 5: Human Huvec cell lysates Lane 6: Human Hela cell lysates Lane 7: Human U2os cell lysates Lane 8: Human HepG2 cell lysates Primary: Anti- GAPDH (bsm-33033M) at 1/50000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 38 kDa Observed band size: 38 kDa



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

SELECTED CITATIONS

- **[IF=14.3]** Yangfei Zhao. et al.α-Lipoic Acid Ameliorates Arsenic-Induced Lipid Disorders by Promoting Peroxisomal β-Oxidation and Reducing Lipophagy in Chicken Hepatocyte..Advanced Science.2025 Jan 30:e2413255. Western blot

;Chicken. 39887668

- **[IF=13.801]** Duan Xiaojiang. et al. First-in-human study of the radioligand 68Ga-N188 targeting nectin-4 for PET/CT imaging of advanced urothelial carcinoma. CLIN CANCER RES. 2023 Apr;: WB ;Human. 37093191
- **[IF=10.753]** Zhuoying Hu. et al. MitomiR-504 alleviates the copper-induced mitochondria-mediated apoptosis by suppressing Bak1 expression in porcine jejunal epithelial cells. SCI TOTAL ENVIRON. 2023 Feb;858:160157 WB ;Pig. 36379340
- **[IF=9.5]** Zheng Meng. et al. Targeted ablation of the left middle cervical ganglion prevents ventricular arrhythmias and cardiac injury induced by AMI. BASIC RES CARDIOL. 2023 Dec;:1-18 WB ;Dog. 38151579
- **[IF=9.8]** Bohan Chen. et al. Inhalation of ammonia promotes apoptosis and induces autophagy in hepatocytes via Bax/BCl-2 and m-TOR/ATG5/LC-3bII axes. SCI TOTAL ENVIRON. 2024 Feb;912:169036 WB ;Mouse. 38061639