
GAPDH Mouse mAb, Loading Control

Catalog Number: bsm-33033M

Target Protein: GAPDH

Concentration: 1mg/ml

Form: Size : 50ul/100ul/500ul

Liquid

Size : 200ug (PBS only)

Lyophilized

Note: Centrifuge tubes before opening. Reconstitute the lyophilized product in distilled water. Optimal concentration should be determined by the end user.

Host: Mouse

Clonality: Monoclonal

Clone No.: 4F8

Isotype: IgG

Applications: WB (1:5000-500000)

Reactivity: Human, Mouse, Rat, Hamster (predicted: Rabbit, Pig, Sheep, Chicken, Dog, Monkey)

Predicted MW: 38 kDa

Entrez Gene: 2597

Swiss Prot: P04406

Purification: affinity purified by Protein G

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

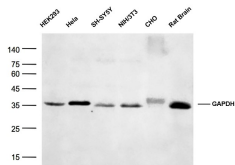
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: loading Control

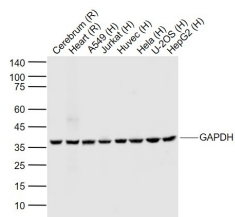
Glyceraldehyde 3 phosphate dehydrogenase (GAPDH) is well known as one of the key enzymes involved in glycolysis. As well as functioning as a glycolytic enzyme in cytoplasm, recent evidence suggests that mammalian GAPDH is also involved in a great number of intracellular processes such as membrane fusion,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



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

PRODUCT SPECIFIC PUBLICATIONS

[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

[IF=8.9] Tao Zhang. et al. Role of Caveolin-1 on the molybdenum and cadmium exposure induces pulmonary ferroptosis and fibrosis in the sheep. ENVIRON POLLUT. 2023 Jul;;122207 WB ; Sheep . 37467914