bsm-52262R **[Primary Antibody]**

GAPDH Recombinant Rabbit mAb, Loading Control

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DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: 3B5
GeneID: 2597
SWISS: P04406
Target: GAPDH
Immunogen: A synthesized peptide derived from human GAPDH: 130-335/335.
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: 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.

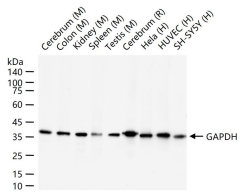
Applications: **WB** (1:5000-50000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (1:50-100)
ICC/IF (1:50-200)

Reactivity: Human, Mouse, Rat (predicted: Zebrafish, Monkey)

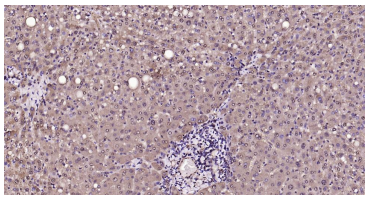
Predicted MW.: 38 kDa

Subcellular Location: Cytoskeleton ,Cytoplasm ,Membrane ,Nucleus

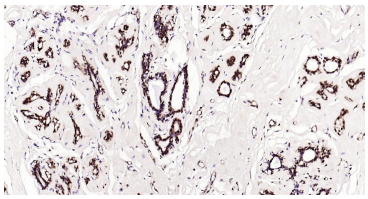
VALIDATION IMAGES



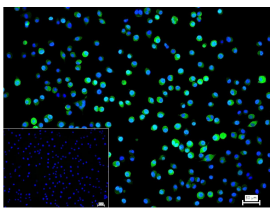
25 ug total protein per lane of various lysates (see on figure) probed with GAPDH monoclonal antibody, unconjugated (bsm-52262R) at 1:5000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



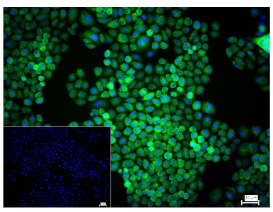
Paraformaldehyde-fixed, paraffin embedded Human Liver; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GAPDH Monoclonal Antibody, Unconjugated(bsm-52262R) at 1:250 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



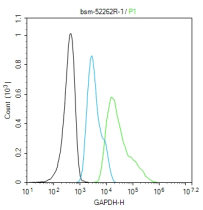
Paraformaldehyde-fixed, paraffin embedded Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with GAPDH Monoclonal Antibody, Unconjugated(bsm-52262R) at 1:250 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining.



4% Paraformaldehyde-fixed L-929 (M) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (GAPDH) monoclonal Antibody, unconjugated

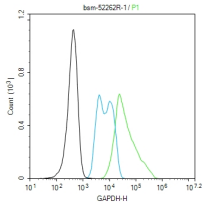


4% Paraformaldehyde-fixed Hela (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (GAPDH) monoclonal Antibody, unconjugated



The L929 (M) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C,the cells then

(bsm-52262R) 1:100, 90 min at 37°C; followed by conjugated Goat Anti-Rabbit IgG antibody (green, bs-60295G-BF488) at 37°C for 90 min, DAPI (blue, C02-04002) was used to stain the cell nuclei. PBS instead of the primary antibody was used as the blank control.



The Hela (H) cells were fixed with 4% PFA (10 min at r.t.) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C,the cells then were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.).Primary Antibody (green):Rabbit Anti-GAPDH antibody (bsm-52262R): 1 µg/10^6 cells; Secondary Antibody (white blue): Goat anti-Rabbit IgG-BF488 (bs-60295G-BF488): 1 µg/test. Blank control (black): PBS. Acquisition of 20,000 events was performed.

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SELECTED CITATIONS

- **[IF=13.3]** Yuan Li. et al. A Biomimetic Peptide Functions as Specific Extracellular Matrix for Quiescence of Stem Cells against Intervertebral Disc Degeneration. SMALL. 2023 Jul;:2300578 WB ;Rat. 37423970
- **[IF=11.5]** Jian Xiao. et al. Mitochondria-specific GPX4 inhibition enhances ferroptosis and antitumor immunity. J CONTROL RELEASE. 2025 May;:113841 ;. 40373937
- **[IF=8.3]** Panyi Hu. et al. Targeting Liver Fibrosis with Nanoparticle Technology: The Dual-Drug Strategy for Hepatic Stellate Cell Activation Inhibition. ACS APPL MATER INTER. 2025;17(17):25071–25082 WB ;Mouse. 40238180
- **[IF=6.196]** Cheng He. et al. Crosstalk of renal cell carcinoma cells and tumor-associated macrophages aggravates tumor progression by modulating muscleblind-like protein 2/B-cell lymphoma 2/beclin 1-mediated autophagy. CYTOTHERAPY. 2022 Oct;: WB ;Human. 36244911
- **[IF=4.8]** Yanyan Ma. et al. Sevoflurane Improves Ventricular Conduction by Exosomes Derived from Rat Cardiac Fibroblasts After Hypothermic Global Ischemia-Reperfusion Injury. DRUG DES DEV THER. 2023 Jun 11 WB ;Rat. 10.2147/DDDT.S408595