

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

GAPDH Recombinant Rabbit mAb, Loading Control

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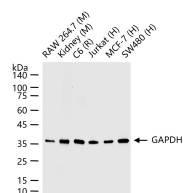
DATASHEET

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:** Loading Control

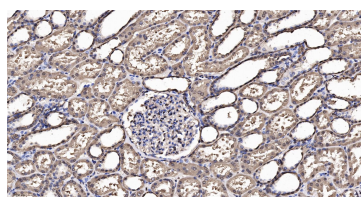
Glyceraldehyde 3 phosphate dehydrogenase (GAPDH) is well known as one of the key enzymes involved in glycolysis. As well as functioning as a glycolytic enzyme in cytoplasm, recent evidence suggests that mammalian GAPDH is also involved in a great number of intracellular processes such as membrane fusion,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

Applications: WB (1:50000-500000)**IHC-P** (1:200-1000)**IHC-F** (1:200-1000)**IF** (1:200-1000)**Flow-Cyt** (1:100-200)**ICC/IF** (1:100-500)**Reactivity:** Human, Mouse, Rat
(predicted: Zebrafish, Monkey)**Predicted MW.:** 38 kDa**Observed MW.:** 38 kDa**Subcellular Location:** Cytoskeleton, Cytoplasm, Membrane, Nucleus

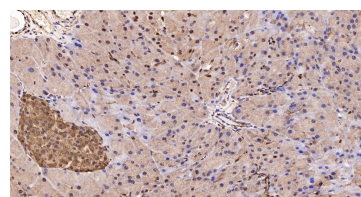
VALIDATION IMAGES



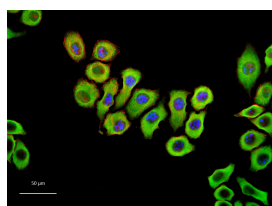
25 ug total protein per lane of various lysates (see on figure) probed with GAPDH monoclonal antibody, unconjugated (bsm-52262R) at 1:200000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



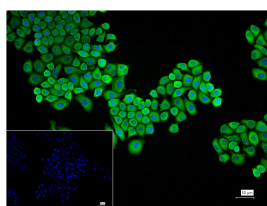
Paraformaldehyde-fixed, paraffin embedded Human Kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with GAPDH Monoclonal Antibody, Unconjugated (bsm-52262R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



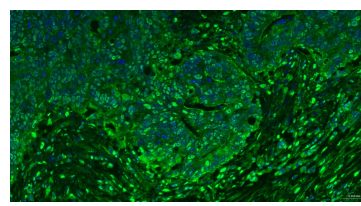
Paraformaldehyde-fixed, paraffin embedded Mouse Pancreas; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with GAPDH Monoclonal Antibody, Unconjugated (bsm-52262R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



4% Paraformaldehyde-fixed HeLa (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (GAPDH) monoclonal Antibody, unconjugated (bsm-52262R) 1:100, 90 min at 37°C; followed by



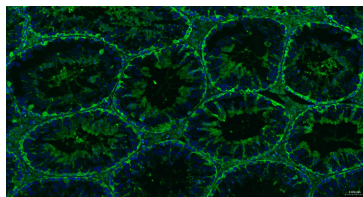
4% Paraformaldehyde-fixed HeLa (H) cell; Triton X-100 at r.t. for 20 min; Antibody incubation with (GAPDH) monoclonal Antibody, unconjugated (bsm-52262R) 1:100, 90 min at 37°C; followed by



Paraformaldehyde-fixed, paraffin embedded Human Colon Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with GAPDH

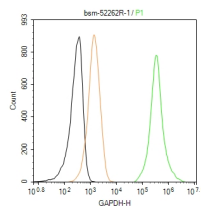
Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

BF488 conjugated Goat Anti-Rabbit IgG antibody (green, bs-60295G-BF488) at 37°C for 90 min, then stained with Phalloidin/BF555 for 30 min at room temperature; DAPI (blue, C02-04002) was used to stain the cell nuclei.



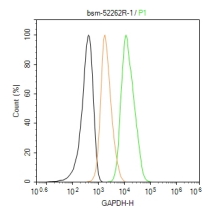
Paraformaldehyde-fixed, paraffin embedded Mouse Testicles; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with GAPDH Antibody, Unconjugated (bsm-52262R) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Green, bs-0295G-BF488), DAPI (blue, C02-04002) was used to stain the cell nuclei.

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.), followed by secondary antibody incubation for 40 min at room temperature. Primary Antibody (green):Rabbit Anti-GAPDH antibody (bsm-52262R,1:100); Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.

Antibody, Unconjugated (bsm-52262R) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Rabbit IgG antibody (Green, bs-0295G-BF488), DAPI (blue, C02-04002) was used to stain the cell nuclei.



The L-929 (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 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,1:100); Isotype Control (orange): Rabbit IgG (bs-0295P). Blank control (black): PBS. Acquisition of 20,000 events was performed.

— 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=11.5]** Qingqing Huang. et al. Nano-immunomodulators co-activate immunogenic cell death and the cGAS–STING pathway for breast cancer immunotherapy. *J CONTROL RELEASE*. 2026 Apr;:114913 WB ;Mouse. 41962772
- **[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