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# GAPDH
# Mouse Anti-GAPDH (Clone GA1R) mAb Loading Control

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|---|---|---|---|
| **Catalog No.** | CSI20571A | **Quantity:** | 50 µg |
| | CSI20571B | | 100 µg |
| | CSI20571C | | 1.0 mg |

**Alternate Names:** glyceraldehyde-3-phosphate dehydrogenase

**Description:** The monoclonal antibody recognizes multi-species GAPDH. GAPDH performs many mechanistically distinct functions. Primarily, the protein catalyzes an important energy-yielding step in carbohydrate metabolism, the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate in the presence of inorganic phosphate and nicotinamide adenine dinucleotide (NAD). Additionally, it has been identified to have uracil DNA glycosylase activity in the nucleus, antimicrobial activity against E. coli, P. aeruginosa, and C. albicans, and in mice, a variety of additional functions including nitrosylation of nuclear proteins, the regulation of mRNA stability, and acting as a transferrin receptor on the cell surface of macrophages.

GAPDH is commonly used as a loading control in molecular applications.

**Concentration:** 1.0 mg/mL

**Specificity:** Recognizes native and denatured forms of GAPDH (approx. 37kDa) from *E. coli*, Sf9 insect cells, *Saccharomyces cerevisiae* (yeast), human, mouse, rat, rabbit, chicken and hamster. GAPDH from other species may also be detectable.

**Host:** Mouse

**Isotype:** IgG1

**Immunogen:** Recombinant GAPDH

**Clone:** GA1R

**Formulation:** Liquid in 10 mM PBS, pH 7.2, 0.5% sodium azide.

**Purification:** Protein A affinity chromatography from mouse ascites fluid

**Applications:** Immunostaining (IS), Western Blot (WB), Dot Blot, ELISA

**Application Notes:** WB (with ECL): working dilution of 1:1,000-100,000 (incubate for one hour at RT). IS: working dilution of 1:500- 2,000. The optimal concentration should be determined by the user for each specific application.

**Storage & Stability:** Centrifuge after first thaw to maximize product recovery and apportion into working aliquots. Store aliquots at 2-8 °C for up to 2 weeks, or store in working aliquots at -20 °C to -80°C for up to one year. **Avoid repeated freeze-thaw cycles.**

**Statement:** PPE is recommended when working with products containing Sodium Azide.

LEFT: 1:2,000 (0.5 µg/mL) Ab dilution used in WB of 5 µg/lane tissue lysates from human (1), mouse (2), rat (3), rabbit (4), chicken (5), and hamster (6).

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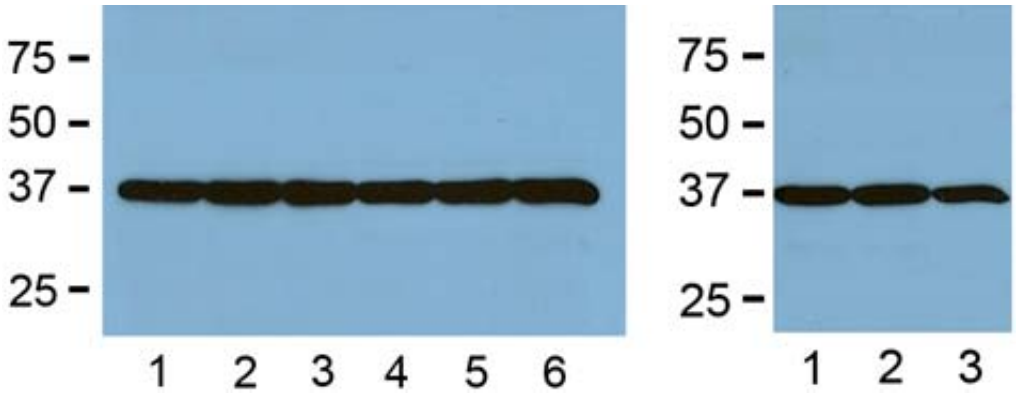
RIGHT: WB from BL-21 bacteria (1), Sf9 insect (2), and Saccharomyces cerevisiae (3)

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