

## GAPDH

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

<b>Catalog No.</b>	CSI20571A	<b>Quantity:</b>	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.

Anti-GAPDH is used as a loading control monoclonal antibody.

**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.

**Isotype:** Mouse IgG1

**Immunogen:** Recombinant GAPDH

**Clone:** GA1R

**Formulation:** Liquid in 10 mM PBS, pH 7.2, 0.5% sodium azide.  
PPE is recommended when working with products containing Sodium Azide.

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

**Applications:** Immunostaining, Western blot, Dot Blot, ELISA

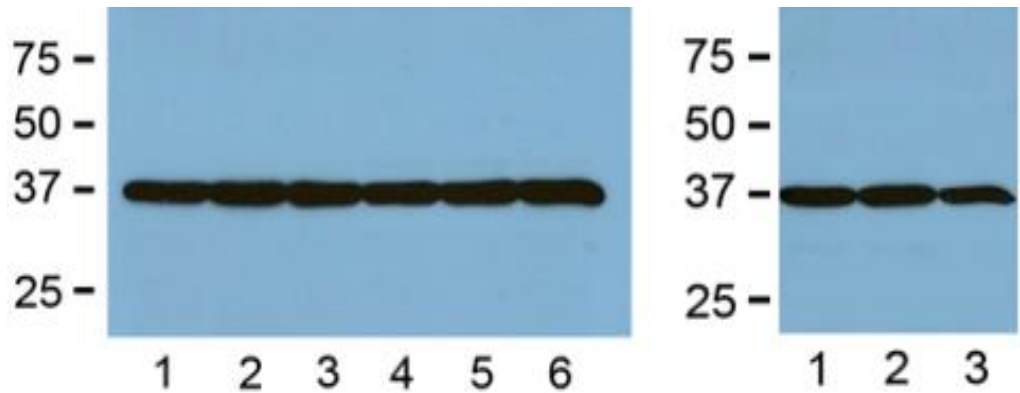
**Application Notes:** **Western blot (with ECL):** working dilution of 1:1,000-100,000  
**Immunostaining:** working dilution of 1:500- 2,000.  
The optimal concentration should be determined by the user for each specific application.

**Storage & Stability:** Centrifuge briefly to maximize product recovery. Prepare working aliquots and store at 2 -8 °C for up to 1 week or at -20 °C to -80°C for up to one year.  
**Avoid repeated freeze-thaw cycles.**



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).

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



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