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# GAPDH Monoclonal Antibody

Cat #: ABM40029 Size: 30μl /100μl /200μl

## Product Information

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| | **Product Name:** GAPDH Monoclonal Antibody | | |
| | **Applications:** WB, IF, IHC-P | | **Isotype:** Mouse IgG1 |
| | **Reactivity:** Human, Mouse, Rat, Monkey, Dog, Chicken, Hamster, Rabbit, Pig, Sheep, Insect, | | |
| REF | **Catalog Number:** ABM40029 | LOT | **Lot Number:** Refer to product label |
| | **Formulation:** Liquid | | **Concentration:** 1 mg/ml |
|  | **Storage:** Store at -20°C. Avoid repeated freeze / thaw cycles. |  | **Note:** Contain sodium azide. |

**Background:** GAPDH encodes a member of the glyceraldehyde-3-phosphate dehydrogenase protein family. Glyceraldehyde-3-phosphate dehydrogenase has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. The product of GAPDH 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). Glyceraldehyde-3-phosphate dehydrogenase has additionally been identified to have uracil DNA glycosylase activity in the nucleus. Also, Glyceraldehyde-3-phosphate dehydrogenase contains a peptide that has antimicrobial activity against E. coli, P. aeruginosa, and C. albicans. Studies of a similar protein in mouse have assigned 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 macrophage. Many pseudogenes similar to this locus are present in the human genome. Alternative splicing results in multiple transcript variants.

**Application Notes:** Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB (1:5000), IHC-P (1:200).

**Storage Buffer:** PBS, pH 7.4, containing 0.02% Sodium Azide as preservative and 50% Glycerol.

**Storage Instructions:** Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

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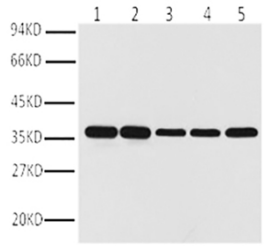
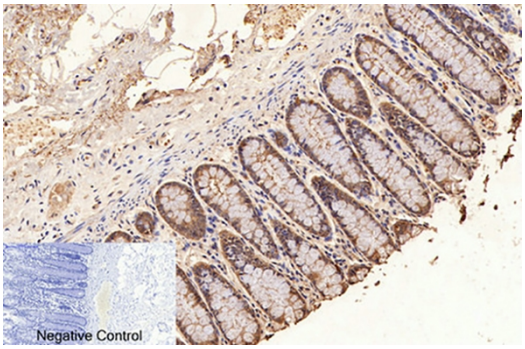
|  | Fig.1. Western blot analysis of Hela (1), rat brain (2), rabbit muscle(3), sheep muscle(4), and mouse brain (5), diluted at 1:10000. |
|  | Fig.2. Immunohistochemical analysis of paraffin-embedded human colon tissue. 1, GAPDH Monoclonal Antibody was diluted at 1:200 (4°C, overnight). 2, Sodium citrate pH 6.0 was used for antibody retrieval(>98°C, 20min). 3, secondary antibody was diluted at 1:200 (room temperature, 30min). Negative control was used by secondary antibody only. |

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