



Product Information Sheet

Polyclonal Anti- Glyceraldehyde-3-phosphate dehydrogenase, **GAPDH**

Catalogue No. PA1338

Lot No. 0131012123899

Ig type rabbit IgG

Size 100µg/vial

Specificity

Human, rat, mouse

No cross reactivity with other proteins.

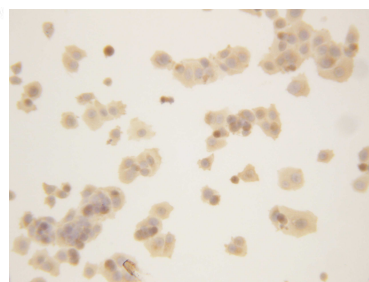
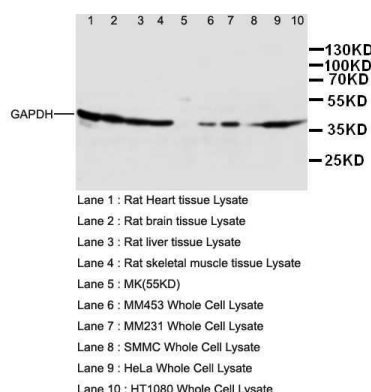
Recommended application

Western blot

Immunohistochemistry(P)

Immunohistochemistry(F)

Immunocytochemistry



Immunogen

A synthetic peptide corresponding to a sequence at the N-terminal of human GAPDH (30-44 aa), identical to the related mouse and rat sequence.

Purity

Immunogen affinity purified.

Application

	Concentration	Tested Species	Concluded Species	Antigen Retrieval
WB	1µg/ml	Hu, Rat, Ms	-	-
IHC-P	1µg/ml	Hu, Rat, Ms	-	By Heat
IHC-F	1µg/ml	Rat, Ms	-	-
ICC	1µg/ml	Hu	-	-

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Thimerosal, 0.05mg NaN₃.

Reconstitution

0.2ml of distilled water will yield a concentration of 500µg/ml.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

To reorder contact us at:

Antagene, Inc.

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BACKGROUND

Glyceraldehyde-3-phosphate dehydrogenase 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). The enzyme is thought to be a tetramer of identical chains. Several highly homologous glyceraldehyde-3-phosphate dehydrogenase (GAPD)-related sequences have been identified previously in human DNA by Southern blot analysis. Protein studies have identified only a single expressed locus for this major glycolytic enzyme, and this maps to chromosome 12p13.¹ Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) is a critical regulator of CICD, it mediates an elevation in glycolysis and enhanced autophagy that cooperate to protect cells from CICD.²

REFERENCE

- 1 、 Benham, F. J., Povey, S. Members of the human glyceraldehyde-3-phosphate dehydrogenase-related gene family map to dispersed chromosomal locations. *Genomics* 5: 209-214, 1989.
- 2 、 Colell, A., Ricci, J.-E., Tait, S., Milasta, S., Maurer, U., Bouchier-Hayes, L., Fitzgerald, P., Guio-Carrion, A., Waterhouse, N. J., Li, C. W., Mari, B., Barbry, P., Newmeyer, D. D., Beere, H. M., Green, D. R. GAPDH and autophagy preserve survival after apoptotic cytochrome c release in the absence of caspase activation. *Cell* 129: 983-997, 2007.