

Product datasheet for **AM09140PU-N**

GAPDH Mouse Monoclonal Antibody [Clone ID: H8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	H8
Applications:	ELISA, WB
Recommended Dilution:	ELISA. Dot blot. Western blot: 1/1,000-1/10,000 using ECL Substrate.
Reactivity:	Bacteria, Human, Insect, Mouse, Rabbit, Rat, Yeast
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant GAPDH
Specificity:	Recognizes native and recombinant GAPDH in Human, Mouse, Rat, Rabbit, <i>sf9Insect cells</i> , Yeast and BL-21 Bacteria.
Formulation:	0.01M PBS, pH 7.2 State: Purified State: Lyophilized purified IgG fraction Preservative: 0.05% Sodium Azide
Reconstitution Method:	Restore in double distilled or deionized H ₂ O to a concentration of 1.0 mg/ml.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	glyceraldehyde-3-phosphate dehydrogenase
Database Link:	Entrez Gene 14433 Mouse Entrez Gene 24383 Rat Entrez Gene 2597 Human P04406



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Background:

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.

Synonyms:

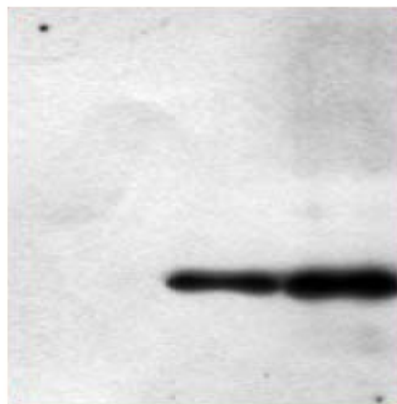
GAPD, CDABP0047

Protein Families:

ES Cell Differentiation/IPS

Protein Pathways:

Alzheimer's disease, Glycolysis / Gluconeogenesis, Metabolic pathways

Product images:

0.1µg 0.5µg 1µg

Western blot using GAPDH Antibody Clone H8