

Product datasheet for **AM00848PU-N**

GAPDH Mouse Monoclonal Antibody [Clone ID: 4G5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4G5
Applications:	ELISA, WB
Recommended Dilution:	ELISA. Western blot.
Reactivity:	Bovine, Canine, Feline, Fish, Goat, Human, Mouse, Porcine, Rabbit, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Rabbit muscle GAPDH. Hybridization of Sp2/0 myeloma cells with spleen cells from BALB/c mice.
Specificity:	This antibody recognizes GAPDH monomer (36 kDa) and the dimer form. Does not react with the tetrameric form.
Formulation:	PBS, pH 7.4 containing 0,09% Sodium Azide as preservative. State: Purified State: Liquid purified IgG fraction (>90% pure by SDS-PAGE).
Concentration:	lot specific
Purification:	Protein A Chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	glyceraldehyde-3-phosphate dehydrogenase
Database Link:	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. Besides its functioning as a glycolytic enzyme in cytoplasm, recent evidence suggest that mammalian GAPDH is also involved in a great number of intracellular proceses such as membrane fusion, microtubule bundling, phosphotransferase activity, nuclear RNA export, DNA replication, and DNA repair. During the last decade a lot of findings 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 constitutively expressed in almost all tissues at high levels, therefore becoming the marker of choice when a loading control in Western blotting is required. Some physiological factors, such as hypoxia and diabetes, increase GAPDH expression in certain cell types.

Synonyms:

GAPD, CDABP0047