

Product datasheet for **AM09367PU-S**

GAPDH (Loading Control) Mouse Monoclonal Antibody [Clone ID: AT8G4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	AT8G4
Applications:	ELISA, IF, WB
Recommended Dilution:	ELISA: 1/1000. Western blot: 1/500-1/10,000. Immunofluorescence: 1/500-1/10,000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Recombinant Human GAPDH (1-335aa) purified from <i>E. coli</i> .
Specificity:	The antibody recognizes Human GAPDH. Other species not tested.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-G affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	glyceraldehyde-3-phosphate dehydrogenase
Database Link:	Entrez Gene 2597 Human P04406



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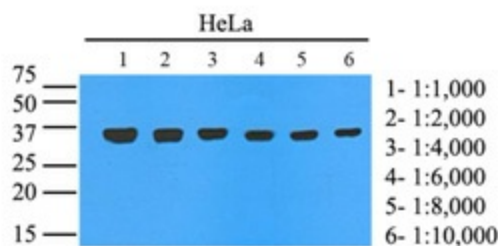
Background: Multiple roles for glyceraldehyde-3-phosphate dehydrogenase (GAPDH) have been recently appreciated. GAPDH is found in the particulate fractions, such as the nucleus, the mitochondria, and the small vesicular fractions. GAPDH gene expression is specifically increased during programmed neuronal cell death. When cells are exposed to various stressors, dynamic subcellular re-distribution of GAPDH occurs. GAPDH is also involved in various diseases, especially neurodegenerative disorders and cancers. As a membrane protein, GAPDH functions in endocytosis; in the cytoplasm, it is involved in the translational control of gene expression; in the nucleus, it functions in nuclear tRNA export, in DNA replication, and in DNA repair.

Synonyms: GAPD, CDABP0047

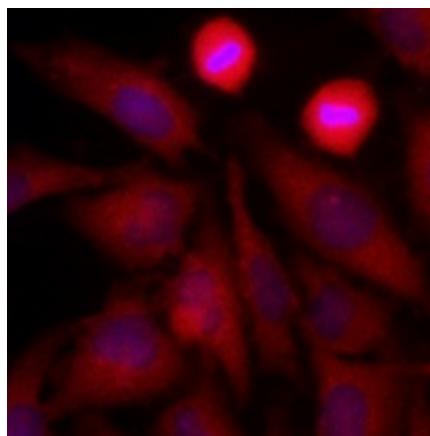
Protein Families: ES Cell Differentiation/IPS

Protein Pathways: Alzheimer's disease, Glycolysis / Gluconeogenesis, Metabolic pathways

Product images:



Western blot analysis: Cell lysates of HeLa (35 ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human GAPDH. Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Immunofluorescence of human HeLa cells stained with Hoechst 3342 (Blue) for nucleus staining and monoclonal anti-human GAPDH antibody. (1/500) with Texas Red (Red).