

OriGene Technologies, Inc.

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Product datasheet for TA336768

GAPDH Mouse Monoclonal Antibody [Clone ID: 1A10]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1A10
Applications:	IF, IHC, WB
Recommend Dilution:	WB: 1:500-1:2000, ELISA: 1:10000, IF: 1:200-1:1000, IHC: 1:200-1:1000, IHC-P: 1:200-1:1000
Reactivity:	Human
Host:	Mouse
lsotype:	lgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant fragment of human GAPDH expressed in E. coli. [UniProt# P04406]
Formulation:	PBS, 0.03% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	1 mg/ml
Purification:	Ammonium sulfate precipitation
Predicted Protein Size:	37 kDa
Gene Name:	glyceraldehyde-3-phosphate dehydrogenase
Database Link:	<u>NP_002037 Entrez Gene 2597 Human</u>



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	GAPDH Mouse Monoclonal Antibody [Clone ID: 1A10] – TA336768
Background:	GAPDH is a 146 kDa tetramer composed of four 30-40 kDa subunits. Glyceraldehyde 3- Phosphate Dehydrogenase (GAPDH) is a metabolic enzyme responsible for catalyzing one step in the glycolytic pathway, the reversible oxidative phosphorylation of glyceraldehyde 3- phosphate. Because GAPDH as a protein expressed in large amounts and which is required at all times for an important house keeping functions, levels of GAPDH mRNA are often used as standards in studies of mRNA expression. Increasingly, scientists are making use of specific antibodies to GAPDH as loading controls for western blotting experiments. Apart from a role in glycolysis, GAPDH may have other roles such as in the activation of transcription. GAPDH is reported to bind to a variety of other proteins, including the amyloid precursor protein, mutations in which cause some forms of Alzheimer's disease, and the polyglutamine tracts of Huntingtin, the protein product aberrant forms of which are causative of Huntington's disease. Associations with actin and tubulin have also be reported. The protein may also have a role in the regulation of apoptosis, and interestingly migrates from the cytoplasm into the nucleus when cells become apoptotic.
Synonyms:	G3PD; GAPD; HEL-S-162eP
Note:	This GAPDH (1A10) antibody is useful for Western blot, Immunohistochemistry on paraffin embedded sections, Immunocytochemistry/Immunofluorescence and ELISA.
Protein Families:	ES Cell Differentiation/IPS
Protein Pathways:	Alzheimer's disease, Glycolysis / Gluconeogenesis, Metabolic pathways
Broduct image	

Product images:



Western Blot: GAPDH Antibody (1A10) TA336768 -Western blot analysis using anti-GAPDH mAb against Hela (1), A549 (2), A431 (3), MCF-7 (4), K562 (5), Jurkat (6), HL60 (7), SKN-SH (8) and SKBR-3 (9) cell lysate.

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Immunohistochemistry-Paraffin: GAPDH Antibody (1A10) TA336768 -Immunohistochemical analysis of paraffin-

embedded human breast carcinoma (left) and kidney carcinoma (right), showing cytoplasmic localization using anti-GAPDH mAb with DAB staining.

Immunocytochemistry/Immunofluorescence: GAPDH Antibody (1A10) TA336768 - Confocal immunofluorescence analysis of methanol-fixed HepG2 (left) and Hela (right) cells using anti-GAPDH mAb (green), showing cytoplasmic localization. Blue: DRAQ5 fluorescent D

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