

GAPDH Antibody (Monoclonal)

Catalog Number:	1000-M1-GAPDH
Product Specification:	Human GAPDH (Glyceraldehyde-3-phosphate Dehydrogenase) Monoclonal antibody raised in mouse.
Size:	100 µl
Type:	Monoclonal
Specificity:	Detects endogenous levels of total GAPDH protein
Host Species:	Mouse
Species Cross-reactivity:	Human
Immunogen:	Synthetic peptide within C- terminus of human GAPDH, KLH-conjugated
Isotype:	IgG1
Clone Number:	3B3
Western Blot:	1: 5000
Immuno-fluorescence:	1: 500
Immuno-precipitation:	Not Determined
ELISA:	Not Determined
Storage:	-20°C in aliquots. Freeze-thaw cycles must be avoided once the stock aliquot is diluted.
Form:	Liquid
Secondary Antibody: (Recommended)	Use anti-mouse IgG raised in rabbit, goat or donkey

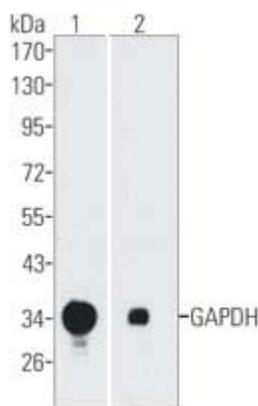
Product Background:

Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) catalyzes the phosphorylation of glyceraldehyde-3-phosphate during glycolysis. Though differentially expressed from tissue to tissue, GAPDH is thought to be a constitutively expressed housekeeping protein. For this reason, GAPDH mRNA and protein levels are often measured as controls in experiments quantifying specific changes in expression of other targets. Recent work has elucidated roles for GAPDH in apoptosis, gene expression and nuclear transport. GAPDH may also play a role in neurodegenerative pathologies such as Huntington and Alzheimer's diseases.

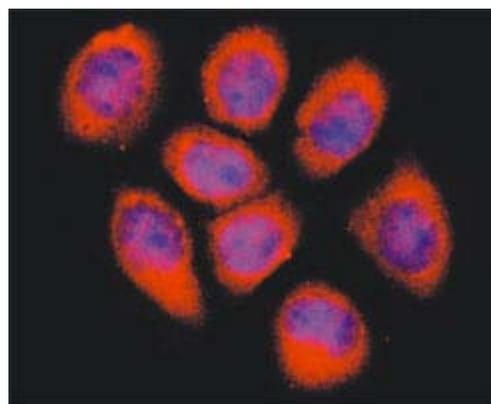
References:

1. Barber, R.D. et al. 2005. GAPDH as a housekeeping gene: analysis of GAPDH mRNA expression in a panel of 72 human tissues. *Physiol. Genomics* 21, 389-95.
2. Hara, M.R. and Snyder, S.H. 2006. Nitric oxide-GAPDH-Siah: a novel cell death cascade. *Cell Mol. Neurobiol.* 26, 527-38.

Applications:



WB analysis of HeLa cell lysate, using Alamo Labs' Mouse mAb (**Cat# 1000-M1-GAPDH**) at 1:5000 dilution (Blot-1) and 1:10,000 (Blot-2). In each blot, 10 µg of cell lysate/lane was loaded.



Immunofluorescence (IF) Analysis of HeLa cells using GAPDH mAb (**Cat# 1000-M1-GAPDH**) at 1:500 dilution.

Related Products:

1000-A1-GAPDH	Glyceraldehyde-3-phosphate dehydrogenase (GAPDH): Antibody (Rabbit Polyclonal) Aff Pure
1000-D-GAPDH	GAP (Glyceraldehyde-3-Phosphare: Substrate for GAPDH enzyme
1000-E-GAPDH	Glyceraldehyde-3-phosphatedehydrogenase (GAPDH): Enzyme
1000-E1-GAPDH	Glyceraldehyde-3-phosphatedehydrogenase (GAPDH): Enzyme
1000-W-GAPDH	Glyceraldehyde-3-phosphatedehydrogenase (GAPDH): Protein (WB +ve Control)

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