

Product datasheet for **TA355044**

GAPDH Mouse Monoclonal Antibody [Clone ID: 12D3D5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	12D3D5
Applications:	WB
Recommended Dilution:	WB: 1-2µg/ml.
Reactivity:	Human, Mouse, Rat, Rabbit
Host:	Mouse
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	Biotin-GAPDH antibody was raised against a 16 amino acid peptide near the carboxy terminus of human GAPDH.
Formulation:	Biotin-GAPDH antibody is supplied in PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	Biotin-GAPDH antibody is Protein A purified.
Conjugation:	Biotin
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	Predicted: 37 kDa; Observed: 36 kDa
Gene Name:	glyceraldehyde-3-phosphate dehydrogenase
Database Link:	NP_002037 Entrez Gene 2597 Human P04406



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Background:

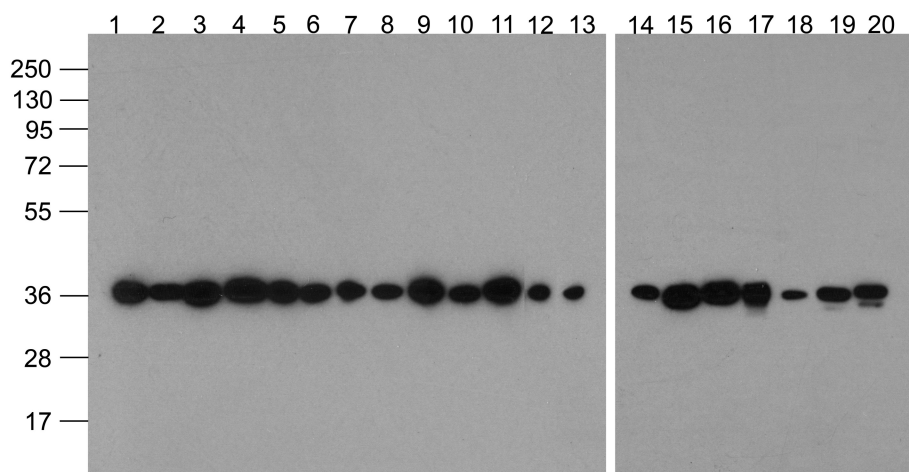
Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) catalyzes the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate in the presence of inorganic phosphate and nicotinamide adenine dinucleotide (NAD), an important energy-yielding step in carbohydrate metabolism. It also is involved in a number of cellular processes such as membrane fusion, phosphotransferase activity, DNA replication and repair, and nuclear RNA export (1). GAPDH also plays a role in different pathologies such as cancer progression, apoptosis, and neuronal diseases such as Alzheimer's and Huntington's disease (2). GAPDH is constitutively expressed at high levels in almost all tissues and cell lines making it ideal for use as a loading control marker in immunoblots.

Synonyms:

G3PD; GAPD; MGC88685; OTTHUMP00000174431; OTTHUMP00000174432

Note:

Biotin-GAPDH antibody can be used for detection of GAPDH by Western blot at 1 - 2 $\mu\text{g}/\text{ml}$.

Product images:

Western blot analysis of GAPDH in multiple cell and tissue lysates with Biotin-GAPDH antibody at 1 $\mu\text{g}/\text{ml}$. Lanes 1-20: 293, A431, A549, Daudi, HeLa, HepG2, Jurkat, K562, MOLT, 3T3, Raji, Ramos, U937, human brain, mouse brain, rat brain, rabbit brain, mouse lung, mouse liver, and rat liver, respectively.