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# Product datasheet for TA349006

## GAPDH Mouse Monoclonal Antibody [Clone ID: 12D3H9]

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | 12D3H9 |
| **Applications:** | WB |
| **Recommended Dilution:** | WB: 1 - 2 ug/mL |
| **Reactivity:** | Human, Mouse, Rat |
| **Host:** | Mouse |
| **Isotype:** | IgG |
| **Clonality:** | Monoclonal |
| **Immunogen:** | GAPDH antibody was raised against a 16 amino acid peptide near the carboxy terminus of human GAPDH. |
| **Formulation:** | PBS containing 0.02% sodium azide. |
| **Concentration:** | 1 mg/ml |
| **Purification:** | GAPDH antibody is Protein A purified. |
| **Conjugation:** | Unconjugated |
| **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<br>Entrez Gene 14433 MouseEntrez Gene 24383 RatEntrez Gene 2597 Human<br>P04406 |

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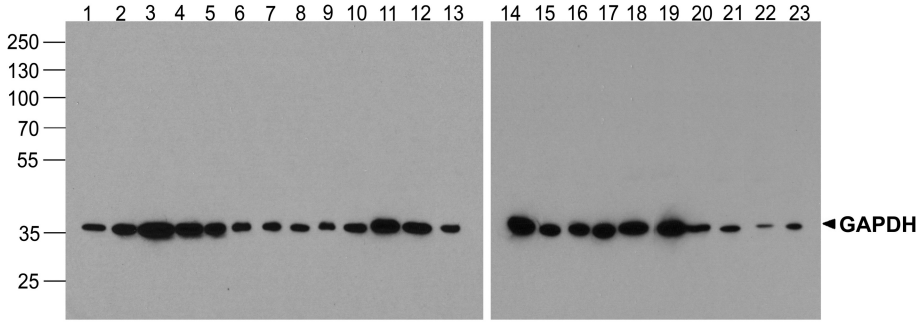
**Background:** Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) catalyzes the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate in the presence of inorganic phosphate and nicotinamide adenine dinucleotide (NAD), an important energy-yielding step in carbohydrate metabolism. It also is 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?? and Huntington?? 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; HEL-S-162eP

**Protein Families:** ES Cell Differentiation/IPS

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

## Product images:




Western blot analysis of GAPDH in multiple cell and tissue lysates with GAPDH antibody at 1 ug/mL. Lanes 1-23, 293, A431, A549, Daudi, HeLa, HepG2, Jurkat, K562, MOLT, 3T3, Raji, Ramos, U937, human brain, mouse brain, rat brain, rabbit brain, human heart,