

Product datasheet for **TA337137**

GAPDH Mouse Monoclonal Antibody [Clone ID: 13H12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	13H12
Applications:	ICC/IF, IHC, Simple Western, WB
Recommended Dilution:	Immunohistochemistry: 5 ug/ml, Immunocytochemistry/ Immunofluorescence: 1:10, Western Blot: 0.25 - 1 ug/ml, Immunohistochemistry-Paraffin: 5 ug/ml, Simple Western: 1:25
Reactivity:	Human, Mouse, Drosophila, Primate
Host:	Mouse
Clonality:	Monoclonal
Immunogen:	Amino acids between 275 and 325 of glyceraldehyde 3-phosphate dehydrogenase protein were used as the immunogen for this antibody.
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	lot specific
Purification:	Protein G purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	glyceraldehyde-3-phosphate dehydrogenase
Database Link:	NP_002037 Entrez Gene 14433 Mouse 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. Recent evidence suggests that it also is involved in a number of cellular processes such as membrane fusion, phosphotransferase activity, DNA replication and repair, and nuclear RNA export. GAPDH has also been implicated in playing a role in different pathologies such as cancer progression, apoptosis, and neuronal diseases such as Alzheimer's and Huntington's disease. 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.

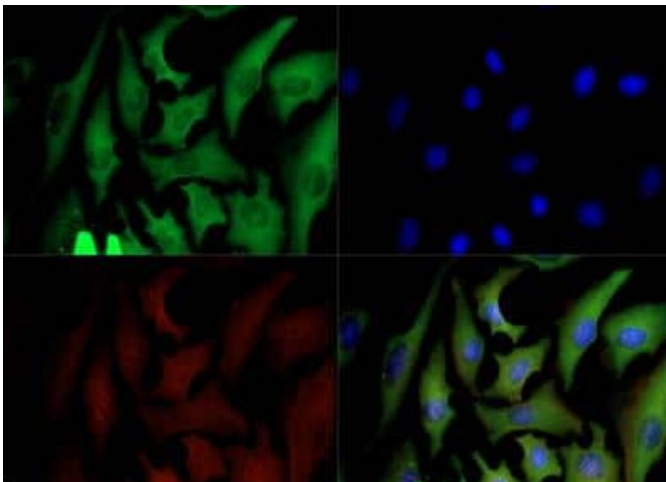
Synonyms: G3PD; GAPD; HEL-S-162eP

Note: GAPDH is a widely used loading control for quantitative Western blotting. In IHC-P, the staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM sodium citrate buffer, pH 6.0 for 10-20 min followed by cooling at RT for 20 min.

Protein Families: ES Cell Differentiation/IPS

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

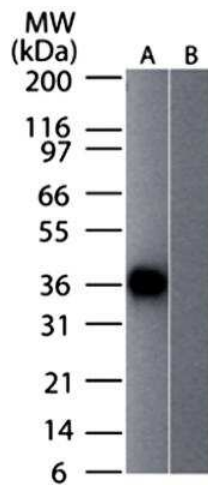
Product images:



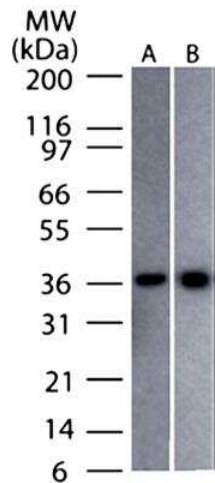
Immunocytochemistry/Immunofluorescence: GAPDH Antibody (13H12) TA337137 - GAPDH antibody was tested in HeLa cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red). A dilution of 1:10 was used. Image objective 40x.



Simple Western: GAPDH Antibody (13H12) TA337137 - GAPDH/G3PDH Antibody (13H12) TA337137 - Simple Western lane view shows a specific band for GAPDH in 0.1 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



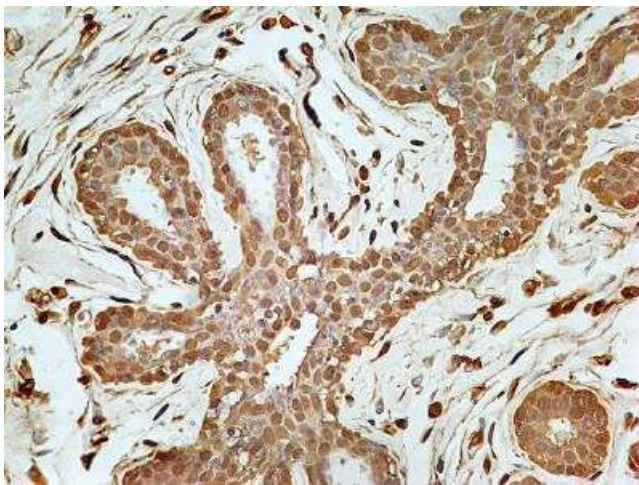
Western Blot: GAPDH Antibody (13H12) TA337137 - WB detection of GAPDH protein (theoretical molecular weight: 36 kDa) in HeLa cells lysate using GAPDH antibody (clone 13H12) in (A) the absence and (B) the presence of immunizing peptide.



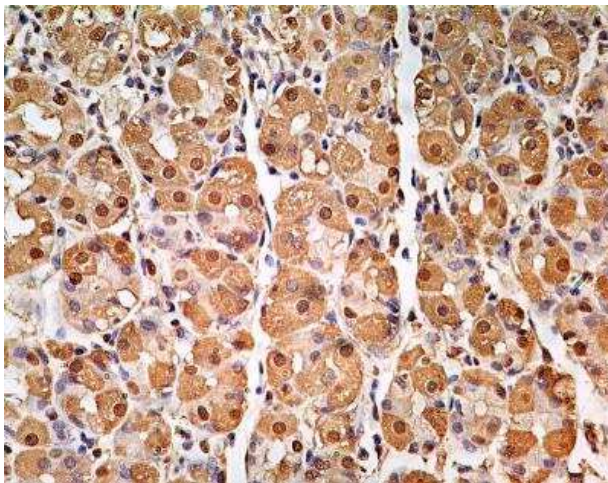
Western Blot: GAPDH Antibody (13H12) TA337137 - WB detection of GAPDH protein (theoretical molecular weight 36 kDa) in lysates of Mouse cell lines (A) NIH 3T3 (B) RAW 264.7 using GAPDH antibody (clone 13H12) at a concentration of 0.25 ug/ml.



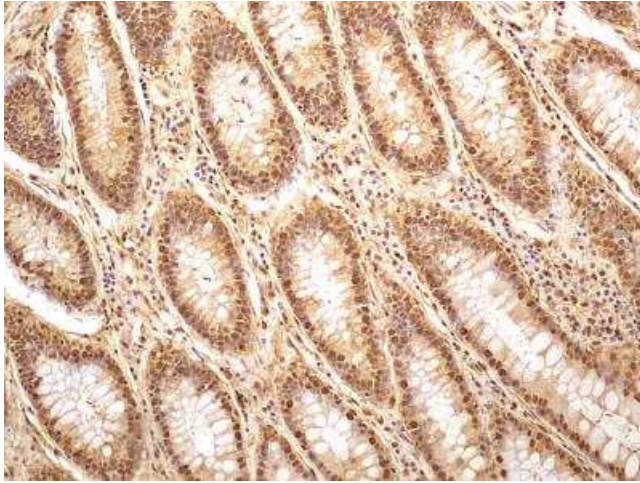
Immunohistochemistry-Paraffin: GAPDH Antibody (13H12) TA337137 - IHC-P detection GAPDH protein in a formalin-fixed paraffin-embedded section of human colon tissue using GAPDH antibody (clone 13H12) at 5 ug/ml concentration.



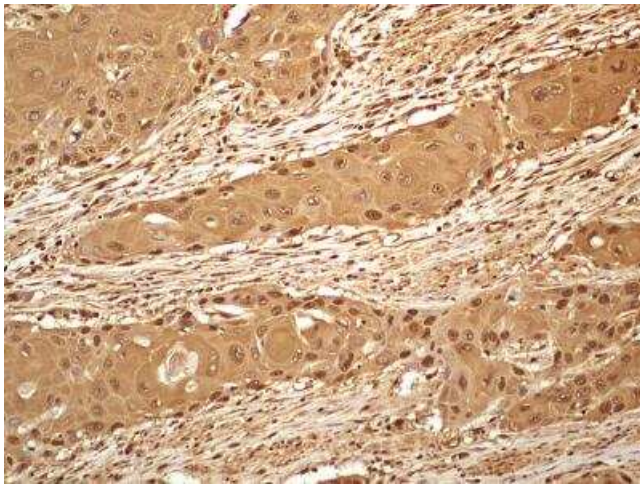
Immunohistochemistry-Paraffin: GAPDH Antibody (13H12) TA337137 - IHC-P detection GAPDH protein in a formalin-fixed paraffin-embedded section of normal human breast tissue using GAPDH antibody (clone 13H12) at 5 ug/ml concentration.



Immunohistochemistry-Paraffin: GAPDH Antibody (13H12) TA337137 - IHC-P detection GAPDH protein in a formalin-fixed paraffin-embedded section of normal human stomach tissue using GAPDH antibody (clone 13H12) at 5 ug/ml concentration.



Immunohistochemistry-Paraffin: GAPDH Antibody (13H12) TA337137 - IHC-P detection GAPDH protein in a formalin-fixed paraffin-embedded section of human rectal carcinoma tissue using GAPDH antibody (clone 13H12) at 5 ug/ml concentration.



Immunohistochemistry-Paraffin: GAPDH Antibody (13H12) TA337137 - IHC-P detection GAPDH protein in a formalin-fixed paraffin-embedded tissue section of human esophageal squamous cell carcinoma (SCC) using GAPDH antibody (clone 13H12) at 5 ug/ml concentration.