

Anti-GAPDH Antibody (biotin)

Catalog Number: A00227-Biotin

About GAPDH

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.

Overview

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|----------------------|--|
| Product Name | Anti-GAPDH Antibody (biotin) |
| Reactive Species | Chicken, Human, Mouse, Rabbit, Rat |
| Description | Boster Bio Anti-GAPDH Antibody (biotin) (Catalog # A00227-Biotin). Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat, Rabbit, Chicken. |
| Application | ELISA, WB |
| Clonality | Polyclonal Clone: SK7 |
| Formulation | Biotin-GAPDH antibody is supplied in PBS containing 1% BSA and 0.02% sodium azide. |
| Storage Instructions | Biotin-GAPDH antibody can be stored at 4°C for three months and -20°C, stable for up to one year. |
| Host | Rabbit |
| Uniprot ID | P04406 |

Technical Details

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| Immunogen | Biotin-GAPDH antibody was raised against a synthetic peptide containing 16 amino acids near the carboxy terminus of GAPDH. |
| Predicted Reactive Species | Bovine |
| Cross Reactivity | Biotin-GAPDH antibody is human, mouse, rat, rabbit, and chicken reactive. |
| Isotype | IgG |
| Form | Liquid |
| Concentration | 1 mg/mL |
| Purification | Biotin-GAPDH antibody is affinity chromatography purified via peptide column. |

Suggested Dilutions

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

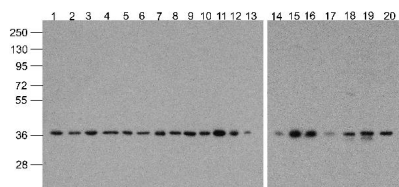
Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Biotin-GAPDH antibody can be used for detection of GAPDH by Western blot at 0.5 - 1 u/ml.

Antibody validated: Western Blot in human, mouse, and rat samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

Anti-GAPDH Antibody (biotin) (A00227-Biotin) Images



Western blot analysis of GAPDH in 293

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