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Anti-GAPDH Antibody Picoband® Biotin Conjugated

Catalog Number: A00227-Biotin

About GAPDH

Glyceraldehyde 3-phosphate dehydrogenase (abbreviated as GAPDH or less commonly as G3PDH) is an enzyme of ~37kDa that catalyzes the sixth step of glycolysis and thus serves to break down glucose for energy and carbon molecules. This gene encodes a member of the glyceraldehyde-3-phosphate dehydrogenase protein family. GAPDH is mapped to 12p13.31. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. The product of this gene catalyzes an important energy-yielding step in carbohydrate metabolism, the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate in the presence of inorganic phosphate and nicotinamide adenine dinucleotide (NAD). The encoded protein has additionally been identified to have uracil DNA glycosylase activity in the nucleus.

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Overview

Product Name	Anti-GAPDH Antibody Picoband® Biotin Conjugated
Reactive Species	Human
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na2HPO4, 0.02% NaN3.
Storage Instructions	At -20˚C for one year from date of receipt. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	P04406

Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human GAPDH, different from the related mouse and rat sequences by three amino acids.
Predicted Reactive Species	Hamster
Cross Reactivity	No cross reactivity with other proteins.
Isotype	Rabbit IgG
Form	Liquid

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Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	Biotin
Suggested Dilutions	The intended application should be selected according to the customer's experimental requirements.

176 Publications Citing This Product

1. PubMed ID: 10.1159/000492935, The Anticancer Effect of Huaier Extract in Renal Cancer 786-O Cells

2. PubMed ID: 10.1186/s13287-021-02638-6, Hydrogel-hydroxyapatite-monomeric collagen type-I scaffold with low-frequency electromagnetic field treatment enhances osteochondral repair in rabbits

3. PubMed ID: 10.2174/156800910791859506, ZD6474, a Small Molecule Tyrosine Kinase Inhibitor, Potentiates the Anti-Tumor and Anti-Metastasis Effects of Radiation for Human Nasopharyngeal Carcinoma

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