

Datasheet: AHP996

BATCH NUMBER 157316

Description:	RABBIT ANTI GAPDH (C-TERMINAL)
Specificity:	GAPDH (C-TERMINAL)
Other names:	GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			0.5 - 1.0ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse, Rat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Antisera to human GAPDH (CT) were raised by repeated immunisation of rabbits with highly purified antigen.

Purified IgG prepared by affinity chromatography.

Buffer Solution	Phosphate buffered saline
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Preservative Stabilisers	0.02% Sodium Azide (NaN ₃)
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Approx. Protein Concentrations	IgG concentration 1.0mg/ml
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Immunogen	A 16 amino acid peptide located near human GAPDH carboxy-terminus.
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External Database Links	UniProt: P04406 Related reagents Entrez Gene: 2597 GAPDH Related reagents
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Synonyms	GAPD
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RRID	AB_609780
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Specificity	<p>Rabbit anti GAPDH (C-Terminal) antibody recognizes an epitope within the C-Terminal region (CT) of Glyceraldehyde-3-phosphate dehydrogenase (GAPDH), a glycolytic enzyme which plays a key role in energy production, and has also been implicated in numerous cellular processes.</p> <p>GAPDH is a homotetramer molecule consisting of four 36kDa subunits, constitutively expressed in most cells and tissues, and is responsible for the generation of energy during carbohydrate metabolism, catalysing the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate.</p> <p>The role of GAPDH as a multifunctional protein has emerged from many studies, confirming its involvement in critical nuclear pathways, apoptosis, membrane transport and fusion, DNA replication and repair and phosphotransferase activity. Furthermore, the ability of GAPDH to bind with high affinity to β-amyloid precursor protein (Alzheimers disease) and selectively with CAG mutated proteins, including huntingtin (Huntingtons disease) and the androgen receptor (spinobulbar muscular atrophy), has focused many studies towards the role of GAPDH in the pathogenesis of neurodegenerative diseases (De Santo <i>et al.</i> 2010).</p>
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Western Blotting	AHP996 detects a band of approximately 37kDa in HeLa cell lysates.
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References	<ol style="list-style-type: none">1. De Santo, C. <i>et al.</i> (2010) Invariant NKT cells modulate the suppressive activity of IL-10-secreting neutrophils differentiated with serum amyloid A. Nat Immunol. 11 (11): 1039-46.2. Weeke-Klump, A. <i>et al.</i> (2010) Epicardium-derived cells enhance proliferation, cellular
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maturation and alignment of cardiomyocytes. [J Mol Cell Cardiol. 49: 606-16.](#)

3. Deacon, K. and Knox, A.J. (2010) Endothelin-1 (ET-1) increases the expression of remodeling genes in vascular smooth muscle through linked calcium and cAMP pathways: role of a phospholipase A(2)(cPLA(2))/cyclooxygenase-2 (COX-2)/prostacyclin receptor-dependent autocrine loop. [J Biol Chem. 285: 25913-27.](#)

4. Li, J. *et al.* (2020) Effect of Sheng-Jiang Powder on Gut Microbiota in High-Fat Diet-Induced NAFLD [Evidence-Based Complementary and Alternative Medicine. 2020: 1-15.](#)

Further Reading	1. Mazzola, J.L. & Sirover, M.A. (2001) Reduction of glyceraldehyde-3-phosphate dehydrogenase activity in Alzheimer's disease and in Huntington's disease fibroblasts. J Neurochem. 76 (2): 442-9. 2. Sirover, M.A. (2005) New nuclear functions of the glycolytic protein, glyceraldehyde-3-phosphate dehydrogenase, in mammalian cells. J Cell Biochem. 95 (1): 45-52.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/AHP996 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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'M364410:200529'

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