

Datasheet: AHP1064

BATCH NUMBER 155638

Description:	GOAT ANTI HUMAN 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 (1)	▪			0.3ug/ml
ELISA	▪			1/2000
Immunoprecipitation			▪	
Western Blotting	▪			0.01 - 0.03ug/ml
Functional Assays			▪	

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

(1)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse, Pig, Rat

Based on sequence similarity, is expected to react with:Dog

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
---------------------	-----------------------

Antiserum Preparation	Antisera to human GAPDH (CT) were raised by repeated immunisations of goat with highly purified antigen. Purified IgG prepared by affinity chromatography.
------------------------------	--

Buffer Solution	TRIS buffered saline
------------------------	----------------------

Preservative Stabilisers	0.02% Sodium Azide (NaN ₃) 0.5% Bovine Serum Albumin
---------------------------------	---

Approx. Protein Concentrations	IgG concentration 0.5mg/ml
---------------------------------------	----------------------------

Immunogen	Peptide sequence C-HQVVSSDFNSDT corresponding to the C-terminal region of GAPDH (NP_002037.2).
------------------	--

External Database Links	UniProt: P04406 Related reagents Entrez Gene: 2597 GAPDH Related reagents
--------------------------------	--

Synonyms	GAPD
-----------------	------

RRID	AB_808591
-------------	-----------

Specificity	<p>Goat anti Human GAPDH antibody recognizes an epitope within the C-terminal (CT) region of glyceraldehyde-3-phosphate dehydrogenase (GAPDH), a ~36 kDa multifunctional protein whose main function is to catalyse the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate, in conjunction with inorganic phosphate and nicotinamide adenine dinucleotide (NAD). This reaction is an important energy yielding step in carbohydrate metabolism.</p> <p>GAPDH translocates to the nucleus under a variety of stressors, most of which are associated with oxidative stress, whereby it mediates cell death (Dastoor <i>et al.</i> 2001). GAPDH binds to several proteins that are responsible for neurodegenerative diseases, such as amyloid precursor protein and Huntingtin (Burke <i>et al.</i> 1996).</p>
--------------------	--

Histology Positive Control Tissue	Human tonsil
--	--------------

Western Blotting	AHP1064 detects a band of approximately 35kDa in human tonsil, mouse spleen and HeLa cell lysates.
-------------------------	--

References	1. Hara, M.R. <i>et al.</i> (2006) GAPDH as a sensor of NO stress. Biochim Biophys Acta. 1762 (5): 502-9.
-------------------	---

- Mazzola, J.L. & Sirover, M.A. (2001) Reduction of glyceraldehyde-3-phosphate dehydrogenase activity in Alzheimer's disease and in Huntington's disease fibroblasts. [Neurochem. 76 \(2\): 442-9.](#)
- Wang H *et al.* (2013) Hypoxic preconditioning alleviates ethanol neurotoxicity: the involvement of autophagy. [Neurotox Res. 24 \(4\): 472-7.](#)

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 #10058 available at: https://www.bio-rad-antibodies.com/SDS/AHP1064 10058
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
----------------------------------	---	------------------	---	---------------	---

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
'M363793:200529'

Printed on 25 Mar 2023