

Datasheet: AHP1064

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.
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	0.02% Sodium Azide (NaN ₃)
Stabilisers	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
Specificity	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. GAPDH translocates to the nucleus under a variety of stressors, most of which are associated with oxidative stress, whereby it mediates cell death (Dastoor et al. 2001). GAPDH binds to several proteins that are responsible for neurodegenerative diseases, such as amyloid precursor protein and Huntingtin (Burke et al. 1996).
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. 2. 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. 3. Wang H <i>et al.</i> (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.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10058 available at: 10058: https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf
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 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

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