

Datasheet: AHP1628

BATCH NUMBER 158891

Description:	RABBIT ANTI GAPDH (N-TERMINAL)
Specificity:	GAPDH (N-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
Immunohistology - Paraffin (1)	▪			10ug/ml
Western Blotting	▪			0.5 - 1.0ug/ml
Immunocytochemistry	▪			1/25 - 1/100

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.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

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

Antiserum Preparation Antiserum to human GAPDH (N-Terminal) was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared from whole serum 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 peptide corresponding to a 16 amino acid sequence from near the amino-terminus of GAPDH.
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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_1604986
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Specificity	<p>Rabbit anti GAPDH (N-Terminal) antibody recognizes human glyceraldehyde 3-phosphate dehydrogenase (GAPDH). GAPDH is a major glycolytic enzyme within the cytosol, which is also involved in a number of intracellular processes including membrane fusion, microtubule bundling, phosphotransferase, DNA replication and DNA repair.</p> <p>GAPDH may be involved in the cellular phenotype of age-related neurodegenerative disorders such as Alzheimer's and Huntington's disease.</p>
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Histology Positive Control Tissue	Human liver tissue
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Western Blotting	AHP1628 detects a band of approximately 40kDa in HeLa cell lysates.
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References	<ol style="list-style-type: none">1. Mohan, H. <i>et al.</i> (2014) Nutrients differentially regulate nucleobindin-2/nesfatin-1 <i>in vitro</i> in cultured stomach ghrelinoma (MGN3-1) cells and <i>in vivo</i> in male mice. PLoS One. 9 (12): e115102.2. Rogalska, A. <i>et al.</i> (2014) Epothilone B induces extrinsic pathway of apoptosis in human SKOV-3 ovarian cancer cells. Toxicol In Vitro. 28: 675-83.3. Paré, B. <i>et al.</i> (2015) Early detection of structural abnormalities and cytoplasmic accumulation of TDP-43 in tissue-engineered skins derived from ALS patients. Acta Neuropathol Commun. 3 (1): 5.4. Antonucci, J.M. <i>et al.</i> (2016) SAMHD1-mediated HIV-1 restriction in cells does not involve ribonuclease activity. Nat Med. 22 (10): 1072-1074.5. Nevzorova, Y.A. <i>et al.</i> (2017) Anti-tumorigenic and anti-angiogenic effects of natural conifer <i>Abies sibirica</i> terpenoids <i>in vivo</i> and <i>in vitro</i>. Biomed Pharmacother. 89: 386-95.
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6. Pham, D. *et al.* (2022) Inhibition of TGF β -induced Fibroblast to Myofibroblast Transition by Conditioned Medium from Human Rhinovirus-infected Airway Epithelial Cells is Mediated by Prostaglandin E2 [Res Sq 21 Jan. \[Epub ahead of print\]](#).
7. Phillips, S. *et al.* (2022) Protocol for the generation of HIV-1 genomic RNA with altered levels of N6-methyladenosine [STAR Protocols. 3 \(3\): 101616](#).
8. Espada, C.E. *et al.* (2023) SAMHD1 impairs type I interferon induction through the MAVS, IKK ϵ , and IRF7 signaling axis during viral infection. [J Biol Chem. 299 \(7\): 104925](#).
9. Kopf, A. *et al.* (2020) Microtubules control cellular shape and coherence in amoeboid migrating cells. [J Cell Biol. 219 \(6\): e201907154](#).

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

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/AHP1628>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Recommended Useful Reagents

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

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

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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)

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