

## Datasheet: AHP1628

<b>Description:</b>	RABBIT ANTI GAPDH (N-TERMINAL)
<b>Specificity:</b>	GAPDH (N-TERMINAL)
<b>Other names:</b>	GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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.**

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Mouse, Rat</p> <p><b>N.B.</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.</p>
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	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
Preservative Stabilisers	0.02% Sodium Azide (NaN <sub>3</sub> )
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	A peptide corresponding to a 16 amino acid sequence from near the amino-terminus of GAPDH.
External Database Links	<p><b>UniProt:</b>  <a href="#">P04406</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">2597</a>    GAPDH    <a href="#">Related reagents</a></p>
Synonyms	GAPD
RRID	AB_1604986
Specificity	<p><b>Rabbit anti GAPDH (N-Terminal) antibody</b> 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>
Histology Positive Control Tissue	Human liver tissue
Western Blotting	AHP1628 detects a band of approximately 40kDa in HeLa cell lysates.
References	<ol style="list-style-type: none"> <li>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. <a href="#">PLoS One. 9 (12): e115102.</a></li> <li>2. Rogalska, A. <i>et al.</i> (2014) Etoposide B induces extrinsic pathway of apoptosis in human SKOV-3 ovarian cancer cells. <a href="#">Toxicol In Vitro. 28: 675-83.</a></li> <li>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. <a href="#">Acta Neuropathol Commun. 3 (1): 5.</a></li> <li>4. Antonucci, J.M. <i>et al.</i> (2016) SAMHD1-mediated HIV-1 restriction in cells does not involve ribonuclease activity. <a href="#">Nat Med. 22 (10): 1072-1074.</a></li> <li>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>. <a href="#">Biomed Pharmacother. 89: 386-95.</a></li> <li>6. Pham, D. <i>et al.</i> (2022) Inhibition of TGFβ-induced Fibroblast to Myofibroblast Transition by Conditioned Medium from Human Rhinovirus-infected Airway Epithelial Cells is</li> </ol>

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 $\epsilon$ , 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](#).

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**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.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/AHP1628>

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**Regulatory**

For research purposes only

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## 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 \(STAR209P\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

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

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