

## Datasheet: AHP730

**BATCH NUMBER 159969**

<b>Description:</b>	RABBIT ANTI ENDONUCLEASE G
<b>Specificity:</b>	ENDONUCLEASE G
<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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			15ug/ml
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1ug/ml - 2ug/ml

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. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

**Target Species** Human

**Species Cross Reactivity** Based on sequence similarity, is expected to react with:Rat, Mouse  
**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 endonuclease G were raised by repeated immunisations of rabbits with highly

purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

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<b>Buffer Solution</b>	Phosphate buffered saline
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<b>Preservative Stabilisers</b>	0.02% Sodium Azide (NaN <sub>3</sub> )
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<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
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<b>Immunogen</b>	Synthetic peptide GGPRGPGELAKYGLP corresponding to amino acids 55 - 70 of endonuclease G.
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<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q14249</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">2021</a> ENDOG <a href="#">Related reagents</a>
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<b>RRID</b>	AB_324300
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<b>Specificity</b>	<p><b>Rabbit anti Endonuclease G antibody</b> recognizes human endonuclease G, also known as endoG. Endo G is a 297 amino acid, including a 48 amino acid transit peptide ~36 kDa mitochondrion-specific nuclease that translocates to the nucleus and cleaves chromatin DNA during apoptosis.</p> <p>EndoG is reported to act independently of caspases and may represent a caspase independent apoptotic pathway initiated from the mitochondria (<a href="#">Li et al. 2001</a>).</p>
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<b>Histology Positive Control Tissue</b>	Human pancreas
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<b>Western Blotting</b>	AHP730 detects a band of approximately 35kDa in HepG2 and 3T3 cell lysates.
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<b>References</b>	<ol style="list-style-type: none"><li>Colado, E. <i>et al.</i> (2011) Zalypsis has in vitro activity in acute myeloid blasts and leukemic progenitor cells through the induction of a DNA damage response. <a href="#">Haematologica. 96: 687-95.</a></li><li>Amoury, M. <i>et al.</i> (2016) A novel approach for targeted elimination of CSPG4-positive triple-negative breast cancer cells using a MAP tau-based fusion protein. <a href="#">Int J Cancer. 139 (4): 916-27.</a></li><li>Maiso, P. <i>et al.</i> (2008) The insulin-like growth factor-I receptor inhibitor NVP-AEW541 provokes cell cycle arrest and apoptosis in multiple myeloma cells. <a href="#">Br J Haematol. 141 (4): 470-82.</a></li><li>Cascone, A. <i>et al.</i> (2012) Destabilization of the outer and inner mitochondrial membranes by core and linker histones. <a href="#">PLoS One. 7 (4): e35357.</a></li><li>Álvarez-Fernández S <i>et al.</i> (2013) Potent antimyeloma activity of a novel ERK5/CDK inhibitor. <a href="#">Clin Cancer Res. 19 (10): 2677-87.</a></li><li>Ortiz-Ruiz, M.J. <i>et al.</i> (2014) Therapeutic potential of ERK5 targeting in triple negative</li></ol>
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breast cancer. [Oncotarget. 5 \(22\): 11308-18.](#)

7. Ocio, E.M. *et al.* (2009) Zalypsis: a novel marine-derived compound with potent antimyeloma activity that reveals high sensitivity of malignant plasma cells to DNA double-strand breaks. [Blood. 113 \(16\): 3781-91.](#)

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**Further Reading**

1. Li, L.Y. *et al.* (2001) Endonuclease G is an apoptotic DNase when released from mitochondria. [Nature. 412 \(6842\): 95-9.](#)

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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/AHP730>  
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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

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

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

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

### Recommended Useful Reagents

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

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

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Tel: +44 (0)1865 852 700

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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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