

Datasheet: AHP730

Description:	RABBIT ANTI ENDONUCLEASE G
Specificity:	ENDONUCLEASE G
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)	▪			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.

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Synthetic peptide GGPRGPGELAKYGLP corresponding to amino acids 55 - 70 of endonuclease G.
External Database Links	<p>UniProt: Q14249 Related reagents</p> <p>Entrez Gene: 2021 ENDOG Related reagents</p>
RRID	AB_324300
Specificity	<p>Rabbit anti Endonuclease G antibody 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 (Li et al. 2001).</p>
Histology Positive Control Tissue	Human pancreas
Western Blotting	AHP730 detects a band of approximately 35kDa in HepG2 and 3T3 cell lysates.
References	<ol style="list-style-type: none"> 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. Haematologica. 96: 687-95. 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. Int J Cancer. 139 (4): 916-27. 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. Br J Haematol. 141 (4): 470-82. Cascone, A. <i>et al.</i> (2012) Destabilization of the outer and inner mitochondrial membranes by core and linker histones. PLoS One. 7 (4): e35357. Álvarez-Fernández S <i>et al.</i> (2013) Potent antimyeloma activity of a novel ERK5/CDK inhibitor. Clin Cancer Res. 19 (10): 2677-87. Ortiz-Ruiz, M.J. <i>et al.</i> (2014) Therapeutic potential of ERK5 targeting in triple negative breast cancer. Oncotarget. 5 (22): 11308-18. Ocio, E.M. <i>et al.</i> (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.](#)

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

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: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

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

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

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

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

Recommended Useful Reagents

[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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