

Datasheet: AHP1339

Description:	RABBIT ANTI HUMAN HEAT SHOCK PROTEIN 90 ALPHA
Specificity:	HEAT SHOCK PROTEIN 90 ALPHA
Other names:	HSP90A
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

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			▪	
ELISA	▪			1/5000 - 1/25000
Immunoprecipitation		▪		
Western Blotting	▪			1/500 - 1/2500
Functional Assays			▪	

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.

Target Species	Human
Species Cross Reactivity	Based on sequence similarity, is expected to react with: Monkey, Chicken, Mouse, Drosophila, 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 Antisera to human heat shock protein 90 alpha 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	<0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Synthetic peptide corresponding to amino acids 289-300 of human heat shock protein 90 alpha.
External Database Links	UniProt: P07900 Related reagents Entrez Gene: 3320 HSP90AA1 Related reagents
Synonyms	HSP90A, HSPC1, HSPCA
RRID	AB_906044
Specificity	<p>Rabbit anti Human heat shock protein 90 alpha antibody detects human heat shock protein 90 alpha (HSP90α), one of two HSP90 isoforms together with HSP90β. These isoforms are encoded by different genes and under normal conditions assist the folding of newly synthesized proteins, and are also important in cellular processes such as hormone signaling and cell cycle control.</p> <p>In response to mutation or environmental stress, HSP90 expression is upregulated as part of the heat shock response, and function to maintain newly destabilized proteins in a folding competent state. HSP90 can also affect the epigenetic state at specific loci, leading to phenotype modulation.</p> <p>Induction of HSP90α by c-Myc may control the activity of multiple signal pathways involved in cellular transformation.</p>
Western Blotting	AHP1339 detects a band of approximately 90kDa.
References	<ol style="list-style-type: none">1. Teng, S.C. <i>et al.</i> (2004) Direct activation of HSP90A transcription by c-Myc contributes to c-Myc-induced transformation. J Biol Chem. 279 (15): 14649-55.2. Chen, W.S. <i>et al.</i> (2013) Secreted heat shock protein 90α (HSP90α) induces nuclear factor-κB-mediated TCF12 protein expression to down-regulate E-cadherin and to enhance colorectal cancer cell migration and invasion. J Biol Chem. 288 (13): 9001-10.3. Fan, C.S. <i>et al.</i> (2022) Extracellular HSP90α Induces MyD88-IRAK Complex-Associated IKKα/β-NF-κB/IRF3 and JAK2/TYK2-STAT-3 Signaling in Macrophages for Tumor-Promoting M2-Polarization. Cells. 11 (2)Jan 11 [Epub ahead of print].

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/AHP1339 10040
Regulatory	For research purposes only

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 \(STAR209P\)](#)

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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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