

## Datasheet: AHP1339

<b>Description:</b>	RABBIT ANTI HUMAN HEAT SHOCK PROTEIN 90 ALPHA
<b>Specificity:</b>	HEAT SHOCK PROTEIN 90 ALPHA
<b>Other names:</b>	HSP90A
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Based on sequence similarity, is expected to react with: Monkey, Chicken, Mouse, Drosophila, Rat <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	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.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0mg/ml

**Immunogen** Synthetic peptide corresponding to amino acids 289-300 of human heat shock protein 90 alpha.

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**External Database Links**

**UniProt:**

[P07900](#) [Related reagents](#)

**Entrez Gene:**

[3320](#) HSP90AA1 [Related reagents](#)

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**Synonyms** HSP90A, HSPC1, HSPCA

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**Specificity**

**Rabbit anti Human heat shock protein 90 alpha antibody** detects human heat shock protein 90 alpha (HSP90 $\alpha$ ), one of two HSP90 isoforms together with HSP90 $\beta$ . These isoforms are encoded by different genes and under normal conditions assist the folding of newly synthesised proteins, and are also important in cellular processes such as hormone signalling and cell cycle control.

In response to mutation or environmental stress, HSP90 expression is upregulated as part of the heat shock response, and function to maintain newly destabilised proteins in a folding competent state. HSP90 can also affect the epigenetic state at specific loci, leading to phenotype modulation.

Induction of HSP90 $\alpha$  by c-Myc may control the activity of multiple signal pathways involved in cellular transformation.

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**Western Blotting** AHP1339 detects a band of approximately 90kDa.

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**References**

1. Teng, S.C. *et al.* (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. *et al.* (2013) Secreted heat shock protein 90 $\alpha$  (HSP90 $\alpha$ ) induces nuclear factor- $\kappa$ B-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.](#)
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**Storage**

Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Shelf Life**

18 months from date of despatch.

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**Health And Safety Information**

Material Safety Datasheet documentation available at:  
Material Safety Datasheet Documentation #10040 available at:  
<https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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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](#)

Sheep Anti Rabbit IgG (2AB02...)

[Biotin](#)

Sheep Anti Rabbit IgG (STAR36...)

[DyLight®488](#), [DyLight®549](#), [DyLight®649](#),  
[DyLight®680](#), [DyLight®800](#)

## Recommended Useful Reagents

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

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

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'M294529:161005'

**Printed on 03 Apr 2018**

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