

## Datasheet: AHP1571

<b>Description:</b>	GOAT ANTI HUMAN Hsc70
<b>Specificity:</b>	Hsc70
<b>Other names:</b>	HSPA8
<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			▪	
ELISA	▪			1/4000
Immunoprecipitation			▪	
Western Blotting	▪			1.0 - 3.0ug/ml

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: Dog, Rat, Mouse <b>N.B.</b> Antibody reactivity and working conditions may vary between species.
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antiserum to human Hsc70 was raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
<b>Buffer Solution</b>	Tris buffered saline
<b>Preservative</b>	0.02% Sodium Azide (NaN <sub>3</sub> )
<b>Stabilisers</b>	0.5% Bovine Serum Albumin
<b>Approx. Protein Concentrations</b>	IgG concentration 0.5mg/ml
<b>Immunogen</b>	Peptide sequence C-EKLQGKINDEDKQK corresponding to the internal region of Hsc70

(NP\_006588.1)

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**External Database  
Links**

**UniProt:**  
[P11142](#)   [Related reagents](#)

**Entrez Gene:**  
[3312](#)   HSPA8   [Related reagents](#)

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**Synonyms**      HSC70, HSP73, HSPA10

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**Specificity**      **Goat anti Human Hsc70 antibody** recognizes human Heat shock cognate 71 kDa protein, also known as Heat shock 70 kDa protein 8 or Lipopolysaccharide-associated protein 1. Hsc70 is a 646 amino acid ubiquitously expressed cytoplasmic heat-shock cognate protein and member of the heat shock protein 70 family, encoded for by the HSPA8 gene. Goat anti Human Hsc70 antibody recognizes epitopes in the region between amino acids 555 and 570 of Hsc70 isoform 1, missing in isoform 2.

Heat shock proteins are a group of constitutively expressed or heat/stress-inducible proteins which act as molecular chaperones and play an essential role in protein folding/unfolding and transport of proteins across membranes. Hsc70 facilitates the correct folding of newly-synthesized polypeptides ([Flynn et al. 1989](#)) and also participates in the ATPase disassociation of clathrin-coated vesicles during endocytosis, in conjunction with the co-chaperone auxilin ([Jiang et al. 1997](#)).

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**Western Blotting**      This product detects a band of approximately 75kDa in A431 cell lysates.

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**Further Reading**      1. Schmid, S.L. (1997) Clathrin-coated vesicle formation and protein sorting: an integrated process. [Annu Rev Biochem. 66: 511-48.](#)

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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 #10058 available at:  
10058: <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>

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**Regulatory**      For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

**North & South  
America**      Tel: +1 800 265 7376  
Fax: +1 919 878 3751

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