

Datasheet: AHP1571

Description:	GOAT ANTI HUMAN Hsc70
Specificity:	Hsc70
Other names:	HSPA8
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			▪	
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.

Target Species	Human
Species Cross Reactivity	Based on sequence similarity, is expected to react with: Dog, Rat, Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	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.
Buffer Solution	Tris buffered saline
Preservative	0.02% Sodium Azide (NaN ₃)
Stabilisers	0.5% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.5mg/ml
Immunogen	Peptide sequence C-EKLQGKINDEDKQK corresponding to the internal region of Hsc70

(NP_006588.1)

**External Database
Links**

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

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

Synonyms HSC70, HSP73, HSPA10

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](#)).

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

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

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.

Shelf Life 18 months from date of despatch.

**Health And Safety
Information** Material Safety Datasheet documentation #10058 available at:
10058: <https://www.bio-rad-antibodies.com/uploads/MSDS/10058.pdf>

Regulatory For research purposes only

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

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700
Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

'M313678:180329'

