

## Datasheet: AHP1242

<b>Description:</b>	RABBIT ANTI ASK1 (pSer83)
<b>Specificity:</b>	ASK1 (pSer83)
<b>Other names:</b>	APOPTOSIS SIGNAL-REGULATING KINASE 1
<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	▪			1/5,000 - 1/10,000
Immunoprecipitation			▪	
Western Blotting (1)	▪			1/1,000
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.

**(1) For the detection of phosphoproteins, tyrosine phosphatase inhibitors such as 1mM Sodium Orthovanadate should be added to the sample buffer. Milk or other casein-based blocking solutions are not recommended as casein is a phosphoprotein and its use can result in high background.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antisera to ASK1 (pSER83) were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by ion exchange chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.01% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 2.0mg/ml

**Immunogen** KLH conjugated peptide corresponding to amino acids 76-87 of human ASK-1 protein.

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**External Database Links**

**UniProt:**  
[Q99683](#)   [Related reagents](#)

**Entrez Gene:**  
[4217](#)   MAP3K5   [Related reagents](#)

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**Synonyms** ASK1, MAPKKK5, MEKK5

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**Specificity** **Rabbit anti ASK1 (pSer83) antibody** recognizes apoptosis signal-regulating kinase 1 (ASK1), also known as mitogen-activated protein kinase kinase kinase 5 (MAP3K5) and MAPK/ERK kinase kinase 5 (MEKK 5), when phosphorylated at serine 83. ASK1 is a serine/threonine kinase that plays an important role in the apoptotic response to various stimuli including oxidative stress, cytokines (e.g. TNF) and endoplasmic reticulum stress. Akt in conjunction to Hsp90 phosphorylates ASK1 at serine 83 to inhibit ASK1 induced apoptosis.

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**Western Blotting** AHP1242 detects a band of approximately 155kDa in SW1353 cell lysates.

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**Further Reading**

1. Zhang, R. *et al.* (2005) Hsp90-Akt phosphorylates ASK1 and inhibits ASK1-mediated apoptosis. [Oncogene. 24: 3954-3963.](#)
2. Hayakawa, T. *et al.* (2006) The ASK1-MAP kinase pathways in immune and stress responses. [Microbes Infect. 8: 1098-1107.](#)
3. Takeda, K. *et al.* (2003) Roles of MAPKKK ASK1 in stress-induced cell death. [Cell Struct. Funct. 28: 23-29.](#)

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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 #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 (2AB02...)   [Biotin](#)  
Sheep Anti Rabbit IgG (STAR34...)   [FITC](#)  
Sheep Anti Rabbit IgG (STAR35...)   [RPE](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...)   [Biotin](#), [FITC](#), [HRP](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...)   [HRP](#)  
Sheep Anti Rabbit IgG (STAR54...)   [HRP](#)  
Sheep Anti Rabbit IgG (STAR36...)   [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),  
[DyLight®680](#), [DyLight®800](#)

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