

Datasheet: AHP1184

Description:	RABBIT ANTI SUMO-1 (N-TERMINAL)
Specificity:	SUMO-1 (N-TERMINAL)
Other names:	SMALL UBIQUITIN-RELATED MODIFIER-1
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			▪	
Immunoprecipitation			▪	
Western Blotting	▪			0.5 - 1.0ug/ml

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Reacts with: Rat, Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to human SUMO-1 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.02% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	14 amino acid peptide sequence near the amino terminus of human SUMO-1.

**External Database
Links**

UniProt:

[P63165](#) [Related reagents](#)

Entrez Gene:

[7341](#) SUMO1 [Related reagents](#)

Synonyms

SMT3C, SMT3H3, UBL1

Specificity

Rabbit anti Human SUMO-1 antibody recognizes the N-terminal (NT) region of small ubiquitin-related modifier-1 (SUMO-1). SUMO-1 is an ~11 kDa protein which structurally related to ubiquitin, and is added to proteins as a form of post-translational modification known as sumoylation. Sumoylation can be cell cycle regulated, stimulated upon stress or induced by DNA damage, and binding elicits individual effects for each protein. Effects include changes to protein stability, nuclear-cytosolic transport, and transcriptional regulation (mostly transcriptional repression).

Alternate transcriptional splice variants encoding different isoforms have been characterized.

Western Blotting

AHP1184 detects a band of approximately 15kDa in HL-60 cell lysates.

Further Reading

1. Melchior, F. & Hengst, L. (2002) SUMO-1 and p53. [Cell Cycle. 1 \(4\): 245-9.](#)
2. Verger, A. *et al.* (2003) Modification with SUMO. A role in transcriptional regulation. [EMBO Rep. 4 \(2\): 137-42.](#)

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 #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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](#)

Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)

Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®549](#), [DyLight®649](#),
[DyLight®680](#), [DyLight®800](#)

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Printed on 01 May 2018

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