

Datasheet: AHP1493

Description:	RABBIT ANTI op18 (C-TERMINAL)
Specificity:	op18 (C-TERMINAL)
Other names:	ONCOPROTEIN 18
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 (1)	▪			
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			0.5 - 1.0ug/ml
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) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Antiserum Preparation Antiserum to human op18 was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

Buffer Solution Phosphate buffered saline

Preservative Stabilisers 0.02% Sodium Azide (NaN₃)

Approx. Protein Concentrations IgG concentration 1.0mg/ml

Immunogen A 20 amino acid peptide located near the carboxy terminus of human op18.

External Database Links

UniProt:
[P16949](#) [Related reagents](#)

Entrez Gene:
[3925](#) STMN1 [Related reagents](#)

Synonyms C1orf215, LAP18, OP18

RRID AB_2286799

Specificity **Rabbit anti Human op18 antibody** recognises the C-terminal region Human op18, a 17.3 kDa cytoplasmic protein belonging to the Strathmin family.

Op18 may function as an intracellular relay by integrating several signalling pathways such as those involved in cell proliferation and differentiation. In addition, op18 is involved in the regulation of the microtubule filament system by destabilizing microtubules where it prevents assembly, and promotes disassembly of microtubules.

op18 is a potential target of the ASK1-p38 MAP kinase cascade suggesting that the ASK1-p38 cascade may regulate microtubule dynamics through op18.

Op18, while ubiquitously expressed in normal tissues, is highly expressed in a variety of cancers including leukaemia, prostate cancer, ovarian carcinoma and breast carcinoma. It has therefore been hypothesized that op18 may be a potential target for anti-cancer therapeutics.

Western Blotting AHP1493 detects a band of approximately 15kDa in EL4 cell lysates.

Further Reading

1. Mizumura, K. *et al.* (2006) Identification of Op18/stathmin as a potential target of ASK1-p38 MAP kinase cascade. [J Cell Physiol. 206 \(2\): 363-70.](#)
2. Mistry, S.J. & Atweh, G.F. (2002) Role of stathmin in the regulation of the mitotic spindle: potential applications in cancer therapy. [Mt Sinai J Med. 69 \(5\): 299-304.](#)
3. Curmi, P.A. *et al.* (1999) Stathmin and its phosphoprotein family: general properties, biochemical and functional interaction with tubulin. [Cell Struct Funct. 24 \(5\): 345-57.](#)
4. Belmont, L.D. & Mitchison, T.J. (1996) Identification of a protein that interacts with

tubulin dimers and increases the catastrophe rate of microtubules. [Cell. 84 \(4\): 623-31.](#)

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

Recommended Useful Reagents

- [ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)
[100x ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)
[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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