

Datasheet: AHP1419

Description:	RABBIT ANTI PCNA
Specificity:	PCNA
Other names:	PROLIFERATING CELL NUCLEAR ANTIGEN
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			2.5ug/ml
ELISA	▪			1/2000 - 1/8000
Immunoprecipitation			▪	
Western Blotting	▪			1/500 - 1/2000

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: Chicken, Rat, Bovine, Monkey, Mouse, Dog Based on sequence similarity, is expected to react with: Fish, Amphibia N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antiserum to human PCNA 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	0.09% Sodium Azide (NaN ₃)
Approx. Protein	IgG concentration 0.5 mg/ml

Concentrations

Immunogen Synthetic peptide corresponding an internal region of human PCNA protein.

External Database Links

UniProt:

[P12004](#) [Related reagents](#)

Entrez Gene:

[5111](#) PCNA [Related reagents](#)

Specificity

Rabbit anti Human PCNA antibody recognizes Human Proliferating Cell Nuclear Antigen (PCNA), also known as cyclin. PCNA is a 261 amino acid ~36 kDa nuclear protein vital for cellular DNA synthesis, playing a key role in the DNA damage response where it acts as a loading platform to recruit additional damage repair proteins to lesions following DNA damage and promote repair ([Burkovics et al. 2009](#)).

PCNA is a useful marker for DNA synthesis and is highly conserved among most species. Rabbit anti human PCNA antibody is expected to have wide species cross reactivity. PCNA expression in human dermis is negatively correlated to age as demonstrated by immunohistochemistry on paraffin sections using rabbit anti human PCNA antibody ([Gunin et al. 2014](#)).

Histology Positive Control Tissue

Breast

References

1. Gunin, A.G. *et al.* (2010) Age-Related Changes in Proliferation, the Numbers of Mast Cells, Eosinophils, and cd45-Positive Cells in Human Dermis [J Gerontol A Biol Sci Med Sci. 66: 385-92.](#)
 2. Kim, J.Y. *et al.* (2012) Localization of osteopontin and osterix in periodontal tissue during orthodontic tooth movement in rats. [Angle Orthod. 82: 107-14.](#)
 3. Petrov, V.V. *et al.* (2013) Age-related changes in mast cells and eosinophils of human dermis [Ontogenez. 44: 179-85.](#)
 4. Gunin, A.G. *et al.* (2014) Age-related changes in angiogenesis in human dermis. [Exp Gerontol. 55C: 143-51.](#)
 5. Di-Poi, N. & Milinkovitch, M. C. (2016) The anatomical placode in reptile scale morphogenesis indicates shared ancestry among skin appendages in amniotes [Science Advances. 2 \(6\): e1600708.](#)
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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.

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](#)

Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000B\)](#)
[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)
[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)
[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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