

Datasheet: VMA00018KT

Description:	PCNA ANTIBODY WITH CONTROL LYSATE
Specificity:	PCNA
Other names:	Proliferating Cell Nuclear Antigen
Format:	Purified
Product Type:	PrecisionAb™ Monoclonal
Isotype:	IgG2a
Quantity:	2 Westerns

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
Western Blotting	▪			1/1000

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

Target Species	Human
Species Cross Reactivity	Reacts with: African green monkey , Rat, Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Preparation	20µl Mouse monoclonal antibody purified by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Immunogen	Rat PCNA made in the Protein A expression vector pR1T2T
External Database Links	<p>UniProt: P12004 Related reagents</p> <p>Entrez Gene: 5111 PCNA Related reagents</p>

Specificity **Mouse anti PCNA antibody** recognizes the proliferating cell nuclear antigen, also known as PCNA or cyclin. PCNA is a 261 amino acid nuclear protein vital for cellular DNA synthesis at the replication fork ([Li et al. 1995](#)) through its interaction with FEN1 ([Wu et al. 1996](#)). PCNA is the auxiliary protein for DNA polymerase δ ([Bravo et al. 1987](#)).

PCNA is highly conserved between mammalian species and other vertebrates and this antibody has been shown to detect PCNA in a number of species including rat, mouse and African green monkey

Mouse anti PCNA antibody recognizes proliferating cell nuclear antigen as a single band of ~29 kDa in multiple human cell line lysates by western blotting under reducing conditions.

Western Blotting Anti PCNA antibody detects a band of approximately 29 kDa in HeLa cell lysates.

Instructions For Use Please refer to the [PrecisionAb western blotting protocol](#). For additional information on secondary antibody dilution and exposure time see product web page.

Lysate Composition 400 μ g HeLa lysate lyophilized in RIPA buffer.

Lysate Reconstitution - If using DDT reconstitute the lyophilized lysate with 190 μ l DI H₂O, add 200 μ l 2x Laemmli Sample Buffer and 10 μ l 2M DTT.
- If using BME reconstitute the lyophilized lysate with 180 μ l DI H₂O, add 200 μ l 2x Laemmli Sample Buffer and 20 μ l BME.
Heat at 95°C for 5 minutes. For 10 well mini gels load 25 μ l. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.

Storage Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.

Shelf Life As supplied, 12 months from date of despatch.

Acknowledgements PrecisionAb™ is a trademark of Bio-Rad Laboratories.

Health And Safety Information Material Safety Datasheet documentation #10040 #10561 available at:
Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>
Lysate Material (10561): <https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

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

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