Datasheet: MCA1558

Description: MOUSE ANTI PCNA
Specificity: PCNA
Other names: PROLIFERATING CELL NUCLEAR ANTIGEN
Format: Purified
Product Type: Monoclonal Antibody
Clone: PC10
Isotype: IgG2a
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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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</thead>
<tbody>
<tr>
<td>Flow Cytometry (1)</td>
<td></td>
<td></td>
<td></td>
<td>1/100</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<tr>
<td>Immunohistology - Paraffin</td>
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<td>1/50 - 1/100</td>
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<td>ELISA</td>
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<td>Immunoprecipitation</td>
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<tr>
<td>Western Blotting</td>
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<td>1/1000</td>
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(1) Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code BUF09) for this purpose.

Target Species

Rat

Species Cross Reactivity

Reacts with: Ferret, Chicken, Rabbit, Xenopus, Mouse, Horse, Sheep, Dog, Cat, Cynomolgus monkey, Rhesus Monkey, Hamster, Atlantic Salmon, Human, Bearded Dragon, Corn Snake, Nile Crocodile

Based on sequence similarity, is expected to react with: Vertebrates, Invertebrates

N.B. Antibody reactivity and working conditions may vary between species.

Product Form

Purified IgG - liquid

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide

Carrier Free

Yes
Approx. Protein Concentrations

IgG concentration 1.0 mg/ml

Immunogen

Rat PCNA made in the protein A expression vector pR1T2T

External Database Links

UniProt: P04961 Related reagents

Entrez Gene: 25737 Pcna Related reagents

RRID

AB_324955

Specificity

**Mouse anti PCNA antibody, clone PC10** recognizes the proliferating cell nuclear antigen, also known as PCNA or cyclin. PCNA is a 261 amino acid ~28 kDa nuclear protein vital for cellular DNA synthesis at the replication fork ([Lj 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. Mouse anti PCNA antibody, clone PC10 has been used for the detection of PCNA in a number of species including human, rat, mouse ([Park et al. 2008](#)), chicken ([Franz-Odendaal 2008](#)) and abalone ([Harris et al. 2006](#)).

Flow Cytometry

Use 10ul of the suggested working dilution to label 1x10^6 cells in 100ul.

Immunohistology

This product does not require protein digestion pre-treatment of paraffin sections. This product does not require antigen retrieval using heat pre-treatment prior to staining of paraffin sections.

Histology Positive Control Tissue

Tonsil

References


Storage
Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost-free freezers is not recommended. 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

Regulatory
For research purposes only

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) **Alk. Phos.**,** HRP**
Goat Anti Mouse IgG (STAR77...) **HRP**
Rabbit Anti Mouse IgG (STAR12...) **RPE**
Rabbit Anti Mouse IgG (STAR8...) **DyLight®800**
Rabbit Anti Mouse IgG (STAR13...) **HRP**
Goat Anti Mouse IgG (STAR76...) **RPE**
Goat Anti Mouse IgG (STAR70...) **FITC**
Goat Anti Mouse IgG (Fc) (STAR120...) **FITC,** **HRP**
Rabbit Anti Mouse IgG (STAR9...) **FITC**
Human Anti Mouse IgG2a (HCA037...) **FITC,** **HRP**
Goat Anti Mouse IgG (H/L) (STAR117...)

**Recommended Negative Controls**

**MOUSE IgG2a NEGATIVE CONTROL (MCA1210)**

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<td>North &amp; South</td>
<td>+1 800 265 7376</td>
<td>+1 919 878 3751</td>
<td><a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a></td>
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<tr>
<td>Worldwide</td>
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