Datasheet: MCA1558F

**Description:** MOUSE ANTI PCNA:FITC

**Specificity:** PCNA

**Other names:** PROLIFERATING CELL NUCLEAR ANTIGEN

**Format:** FITC

**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](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry (1)</td>
<td></td>
<td></td>
<td></td>
<td>Neat - 1/10</td>
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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.

(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 conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

#### Max Ex/Em

<table>
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<tr>
<th>Fluorophore</th>
<th>Excitation Max (nm)</th>
<th>Emission Max (nm)</th>
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<tr>
<td>FITC</td>
<td>490</td>
<td>525</td>
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</table>

#### Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

#### Buffer Solution

Phosphate buffered saline

#### Preservative Stabilisers

0.09% Sodium Azide

1% Bovine Serum Albumin

#### Approx. Protein

IgG concentration 0.1 mg/ml
Concentrations

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_324957

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 (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. 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.

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. This product is photosensitive and should be protected from light.

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

Related Products

**Recommended Negative Controls**

**MOUSE IgG2a NEGATIVE CONTROL: FITC (MCA1210F)**

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