

Datasheet: MCA6144

**BATCH NUMBER 100005776**

|                      |                     |
|----------------------|---------------------|
| <b>Description:</b>  | RAT ANTI BrdU       |
| <b>Specificity:</b>  | BrdU                |
| <b>Other names:</b>  | 5-BROMODEOXYURIDINE |
| <b>Format:</b>       | Purified            |
| <b>Product Type:</b> | Monoclonal Antibody |
| <b>Clone:</b>        | RF06                |
| <b>Isotype:</b>      | IgG2a               |
| <b>Quantity:</b>     | 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).

|                    | Yes | No | Not Determined | Suggested Dilution |
|--------------------|-----|----|----------------|--------------------|
| Immunofluorescence | ▪   |    |                | 1/500              |

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.

|                                       |   |
|---------------------------------------|---|
| <b>Target Species</b>                 | Chemical  |
| <b>Product Form</b>                   | Purified IgG - lyophilized  |
| <b>Reconstitution</b>                 | Reconstitute with 0.1 ml distilled water  |
| <b>Preparation</b>                    | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant |
| <b>Buffer Solution</b>                | Phosphate buffered saline   |
| <b>Preservative Stabilisers</b>       | 5% Trehalose  |
| <b>Approx. Protein Concentrations</b> | IgG concentration 1.0 mg/ml   |

**Immunogen** Bromodeoxyuridine

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**Specificity** **Rat anti BrdU antibody, clone RF06** recognizes bromodeoxyuridine (known as BrdU or BrdUrd). BrdU is a synthetic thymidine analog, which is incorporated into the newly synthesized DNA during replication instead of thymidine.

Antibody detection of incorporated BrdU in cellular DNA is extensively referenced as an accurate method to monitor cell proliferation in vivo and in vitro. In cell proliferation assays BrdU staining is coupled with the use of a dye that binds total DNA such as propidium iodide (PI). BrdU can be administered diluted in the culture medium or, in vivo via intraperitoneal injection, subcutaneous osmotic pump implants ([Tesaïqzi et al. 2004](#)) or in drinking water ([Moser et al. 2004](#)).

BrdU can be used as a thymidine analog in a wide range of organisms ranging from mammalian cells, through reptiles and amphibians to invertebrate species and plants.

Rat anti BrdU antibody, clone RF06, has been tested in immunofluorescence.

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**Storage** Store at -20°C only.  
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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10121 available at: <https://www.bio-rad-antibodies.com/SDS/MCA6144>  
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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

|  |   |
|--|---|
| Rabbit Anti Rat IgG (STAR16...)                | <a href="#">DyLight@800</a>   |
| Rabbit Anti Rat IgG (STAR17...)                | <a href="#">FITC</a>  |
| Goat Anti Rat IgG (STAR73...)                  | <a href="#">RPE</a>   |
| Rabbit Anti Rat IgG (STAR21...)                | <a href="#">HRP</a>   |
| Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...) | <a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@800</a> |
| Goat Anti Rat IgG (STAR131...)                 | <a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>                                     |
| Goat Anti Rat IgG (STAR72...)                  | <a href="#">HRP</a>   |
| Goat Anti Rat IgG (STAR69...)                  | <a href="#">FITC</a>  |

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