

Datasheet: MCA6144

Description:	RAT ANTI BrdU
Specificity:	BrdU
Other names:	5-BROMODEOXYURIDINE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	RF06
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.

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

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. 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.

Target Species	Chemical
Product Form	Purified IgG - lyophilized
Reconstitution	Reconstitute with 0.1 ml distilled water
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative	5% Trehalose

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen Bromodeoxyuridine

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 ([Tesfaiqzi 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.

References

1. Wang, M. *et al.* (2023) Eucommiae cortex polysaccharides attenuate gut microbiota dysbiosis and neuroinflammation in mice exposed to chronic unpredictable mild stress: Beneficial in ameliorating depressive-like behaviors. [J Affect Disord. 334: 278-292.](#)
2. Hovorka, M. *et al.* (2022) Chronic SSRI Treatment, but Not Norepinephrine Reuptake Inhibitor Treatment, Increases Neurogenesis in Juvenile Rats. [Int J Mol Sci. 23 \(13\): 6919.](#)
3. Zhang, J. *et al.* (2024) Comparison of genes involved in brain development: insights into the organization and evolution of the telencephalic pallium [Scientific Reports. 14 \(1\) : 6102](#)
4. Ruscu, M. *et al.* (2024) The post-stroke young adult brain has limited capacity to re-express the gene expression patterns seen during early postnatal brain development. [Brain Pathol. 34 \(5\): e13232.](#)

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.

Guarantee 12 months from date of despatch

Acknowledgements PrecisionAb is a trademark of Bio-Rad Laboratories

Health And Safety Information Material Safety Datasheet documentation #20509 available at: <https://www.bio-rad-antibodies.com/SDS/MCA6144>
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®550 , DyLight®650 , DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR72...)	HRP

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