

Mouse BrdU Monoclonal Antibody | anti-BrdU antibody

Mouse Anti BrdU

CATALOG # AAA12259	HOST Mouse	APPLICATIONS Flow Cytometry, Functional Assay, Immunocytochemistry, Immunofluorescence, Immunohistochemistry
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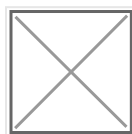
PRODUCT SYNONYMS

BrdU; Monoclonal Antibody; Mouse Anti BrdU; BrdU antibody (Bu20a); anti-BrdU antibody

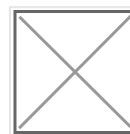
PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	Bu20a
Purity/Purification	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Form/Format	Liquid; Phosphate Buffered Saline
Concentration	1.0 mg/ml (varies by lot)
Applicable Applications for anti-BrdU antibody	FCM/FACS (Flow Cytometry), ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry)
Immunogen	Bromodeoxyuridine conjugated to BSA
Carrier Free	Yes
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the NS1 myeloma cell line.
Preservative Stabilizers	0.09% Sodium Azide (NaN3)
Preparation and Storage	Store at 4 degree C or at -20 degree C if preferred. 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.

IMAGES



Application Data



Application Data

Hela Cells were treated with BrdU for 3 hours and stained with Mouse anti BrdU antibody, clone Bu20a . Goat anti Mouse IgG (H/L) DyLight 549 conjugated antibody (red) was used as the secondary antibody. Cytoplasm was stained with Rabbit anti GAPDH antibody . As the secondary antibody, Sheep anti Rabbit IgG DyLight 488 conjugated antibody (green) was used. PureBlu DAPI (1351303) was used as nuclear counterstain (blue).



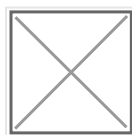
Application Data

HeLa Cells were treated with 10 mug BrdU for 1 hour (B) or left untreated (A). Cells were stained with Mouse anti BrdU antibody, clone Bu20a at a dilution of 1/25. As a secondary antibody, Goat anti Mouse IgG (H/L) DyLight 549 conjugated antibody (red) was used at a 1/50 dilution. Cytoplasm was stained with Rabbit anti GAPDH antibody at a dilution of 1/100. As a secondary antibody, Sheep anti Rabbit IgG DyLight 488 conjugated antibody (green) was used at a 1/50 dilution. PureBlu DAPI (1351303) was used as nuclear counterstain.



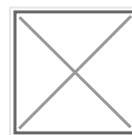
Application Data

Published Customer Image: Mouse Anti Bromodeoxyuridine antibody, clone Bu20a used to stain dividing crypt cells in rat small intestine by immunohistochemistry on formalin fixed, paraffin embedded tissue sections. Image caption: BrdU/ Bu20a/ Small intestine/ Rat. From: Furukawa S, Nagaike M, Ozaki K. Databases for technical aspects of immunohistochemistry. J Toxicol Pathol. 2017 Jan;30(1):79-107.



Application Data

Published Customer image: Mouse anti Bromodeoxyuridine antibody, clone Bu20a used for the identification of proliferating cells in the rat dentate gyrus by immunofluorescence. Image caption: Ghrelin does not significantly inhibit the rate of stem cell self-renewal in the SGZ of the DG of adult rats. Representative images identifying triple positive (BrdU+/Sox2+/S100B+) new adult-born astrocytes (arrows) and double-positive (BrdU+/Sox2+/S100B-) new adult-born stem cells (arrowheads). Statistical analysis was performed using one-way ANOVA with Bonferroni's post hoc test, n = 12 rats per group. Scale bar = 20µm. From: Kent BA, Beynon AL, Hornsby AK, Bekinschtein P, Bussey TJ, Davies JS, Saksida LM. The orexigenic hormone acyl-ghrelin increases adult hippocampal neurogenesis and enhances pattern separation. Psychoneuroendocrinology. 2015 Jan;51:431-9.



Application Data

Mouse anti Bromodeoxyuridine antibody, clone Bu20a used for the identification of proliferating cells in the rat dentate gyrus by immunofluorescence. Image caption: Ghrelin enhances spatial pattern separation and adult hippocampal neurogenesis in adult rats. (D) Representative images of DCX+ immature neurones and new adult-born DG neurones (white arrows) co-expressing NeuN+ and BrdU+ (yellow). Scale bar = 200µm. From: Kent BA, Beynon AL, Hornsby AK, Bekinschtein P, Bussey TJ, Davies JS, Saksida LM. The orexigenic hormone acyl-ghrelin increases adult hippocampal neurogenesis and enhances pattern separation. Psychoneuroendocrinology. 2015 Jan;51:431-9.

ADDITIONAL INFORMATION

Related Product Information for anti-BrdU antibody

Description: Anti BrdU antibody, clone Bu20a recognizes bromodeoxyuridine (known as BrdU or BrdUrd). This antibody is suitable for detecting incorporated BrdU in a wide variety of cell types and is suitable for use on tissue sections in double-labeling techniques.

Summary: Mouse anti BrdU antibody, clone Bu20a recognizes bromodeoxyuridine (known as BrdU or BrdUrd). BrdU is a synthetic thymidine analog, which is incorporated to new DNA during replication instead of thymidine. BrdU can therefore be used to identify newly synthesized DNA. Mouse anti BrdU antibody, clone Bu20a, recognizes BrdU and other thymidine analogs; 5?-chloro-2?-deoxyuridine (CldU), 5?-iodo-2?-deoxyuridine (IdU) and 2?-deoxy-5-ethynyluridine (EdU), but only shows minimal reactivity with thymidine itself (Aten et al. 1992, Liboska et al. 2012, Magaud et al. 1989).

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. Mouse anti BrdU antibody, clone Bu20a, is suitable for detecting incorporated BrdU in a wide variety of cell types and is suitable for use on tissue sections in double-labeling techniques (Makarev and Gorivodsky 2014).

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/brdu-antibody-clone-bu20a-flow-cytometry-immunocytochemistry-immunofluorescence-immunohistochemistry-elisa/12259>