

PE anti-BrdU Antibody

Catalog# / Size	339811 / 25 tests 339812 / 100 tests
Clone	Bu20a
Regulatory Status	RUO
Other Names	Bromodeoxyuridine
Isotype	Mouse IgG1, κ
Description	BrdU is a uridine derivative and a structural analog of thymidine that can be incorporated into DNA during the S-phase of the cell cycle as a substitute for thymidine. Cells can be pulse-labeled with BrdU and analyzed with antibodies against BrdU to determine the proportion of cells in the S-phase of the cell cycle during a given interval.

Product Details

Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	ICFC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by immunofluorescent intracellular staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application References	<ol style="list-style-type: none">1. Magaud JP, <i>et al.</i> 1989. <i>J. Histochem. Cytochem.</i> 37:1517.2. Hosoya T, <i>et al.</i> 2009. <i>J. Exp Med.</i> 206:2987. PubMed3. Zhang Y, <i>et al.</i> 2013. <i>J. Immunol.</i> 190:4725. PubMed.
Product Citations	<ol style="list-style-type: none">1. Kenderes KJ, <i>et al.</i> 2018. <i>Cell Rep.</i> 24:824. PubMed2. Chen X <i>et al.</i> 2017. <i>Cell stem cell.</i> 21(6):747-760. PubMed3. Liu G, <i>et al.</i> 2019. <i>Int J Biol Sci.</i> 15:1383. PubMed4. Clemente-Casares X, <i>et al.</i> 2017. <i>Immunity.</i> 47:974. PubMed5. Kolter J, <i>et al.</i> 2020. <i>Immunity.</i> 50(6):1482-1497. PubMed6. Fukushima T, <i>et al.</i> 2019. <i>Cell Rep.</i> 29:4144. PubMed7. Hosoya T, <i>et al.</i> 2009. <i>J Exp Med.</i> 206:2987. PubMed8. Zhang Y, <i>et al.</i> 2013. <i>J Immunol.</i> 900:4725. PubMed9. Frei A, <i>et al.</i> 2016. <i>Nat Methods.</i> 10.1038/nmeth.3742. PubMed10. Kang DW, <i>et al.</i> 2020. <i>J Pathol.</i> 252:304. PubMed
RRID	AB_1626188 (BioLegend Cat. No. 339811) AB_1626186 (BioLegend Cat. No. 339812)

Antigen Details

Structure	Uridine derivative that can be incorporated into DNA and substitute for thymidine residues.
Distribution	Cells can be pulsed labeled with BrdU which will be incorporated into DNA during the synthesis phase of the cell cycle.
Function	Antibody against BrdU can be used to identify cells undergoing DNA replication during the period of BrdU incorporation.
Biology Area	Cell Biology, Cell Cycle/DNA Replication, Immunology
Molecular Family	Nuclear Markers
Antigen References	<ol style="list-style-type: none"> 1. Gratzner HG. 1982. <i>Science</i> 218:474. 2. Dolbeare F, <i>et al.</i> 1983. <i>Proc. Natl. Acad. Sci. USA</i> 80:5573. 3. Dolbeare F, <i>et al.</i> 1985. <i>Cytometry</i> 6:521.
Gene ID	NA

Related Protocols

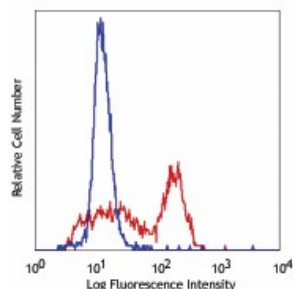
[Anti-BrdU Staining Using 70% Ethanol and 2N HCL](#)

[Anti-BrdU Staining Using DNase with Surface and Fluorescent Proteins](#)

Other Formats

APC anti-BrdU, Purified anti-BrdU, Biotin anti-BrdU, PE anti-BrdU

Product Data



BrdU-incorporated Hut-78 cells stained with BU20a PE

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