

Biotin anti-BrdU Antibody

Catalog# / Size	317904 / 100 µg
Clone	MoBU-1
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. The MoBU-1 antibody is useful for the detection of incorporated BrdU by fluorescent cell staining (ICFC), flow cytometry, and immunohistochemistry.

Product Details

Antibody Type	Monoclonal
Host Species	Mouse
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Preparation	The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions.
Concentration	0.5 mg/ml
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C. 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 ≤0.5 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application References	1. Jung H, <i>et al.</i> 2012. <i>J Exp Med.</i> 209:2409. PubMed
Product Citations	1. Goldsmith JR, <i>et al.</i> 2020. <i>Nat Commun.</i> 11:2591. PubMed 2. Jung H, <i>et al.</i> 2012. <i>J Exp Med.</i> 209:2409. PubMed
RRID	AB_604041 (BioLegend Cat. No. 317904)

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, Immunology
Molecular Family	Nuclear Markers

Antigen References

1. Gratzner HG. 1982. *Science* 218:474.
2. Dolbeare F, *et al.* 1983. *Proc. Natl. Acad. Sci. USA* 80:5573.
3. Dolbeare F, *et al.* 1985. *Cytometry* 6:521.

Gene ID

NA

Related Protocols

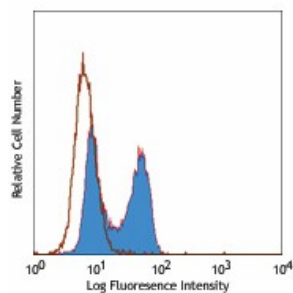
[Anti-BrdU Staining Using 70% Ethanol and 2N HCL](#)

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

Other Formats

Purified anti-BrdU, Biotin anti-BrdU

Product Data



BrdU-incorporated Hut-78 cells stained with biotinylated MoBU-1, followed by Sav-PE

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