

BrdU Monoclonal Antibody (BU20A), eFluor™ 450, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Chemical
Published Species	Chemical
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), eFluor™ 450, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	BU20A
Conjugate	eFluor™ 450
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2574066

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	5 µL (0.25 µg)/test	12 Publications

Product Specific Information

Description: This Bu20a monoclonal antibody reacts with 5-bromodeoxyuridine (BrdU). BrdU is a derivative of uridine that can be incorporated into DNA in place of thymidine during the S-phase of the cell cycle. Anti-BrdU can then be used to identify cells that have undergone DNA synthesis during BrdU treatment.

For staining for flow cytometric analysis, we recommend the use of the BrdU Staining Buffer Set (cat. 00-5525) and protocol.

Applications Reported: This BU20A antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

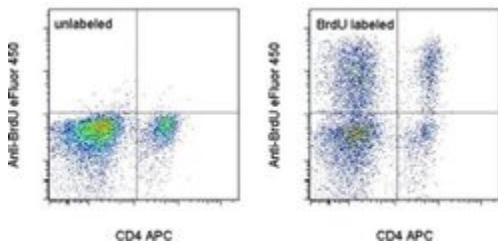
Applications Tested: This BU20A antibody has been pre-titrated and tested This BU20A antibody has been pre-titrated and tested by flow cytometric analysis of BrdU-pulsed mouse splenocytes using the BrdU Staining Buffer Set (cat. 00-5525) and protocol. This can be used at 5 µL (0.25 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

eFluor® 450 is an alternative to Pacific Blue®. eFluor® 450 emits at 445 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochoime.

Excitation: 405 nm; Emission: 445 nm; Laser: Violet Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For BrdU Monoclonal Antibody (BU20A), eFluor™ 450, eBioscience™



BrdU Antibody (48-5071-42) in Flow

Anti-CD3/CD28-stimulated mouse splenocytes either unlabeled (left) or labeled with BrdU (right) were intracellularly stained with Anti-Mouse CD4 APC (Product # 17-0041-82) and Anti-BrdU eFluor® 450 using the BrdU Staining Kit for Flow Cytometry eFluor® 450 and protocol. Total viable cells were used for analysis.

[View more figures on thermofisher.com](http://thermofisher.com)

15 References

Immunocytochemistry (3)

Genes to cells : devoted to molecular & cellular mechanisms

PKN2 is essential for mouse embryonic development and proliferation of mouse fibroblasts.

"Published figure using BrdU monoclonal antibody (Product # 48-5071-42) in Immunocytochemistry"

Authors: Danno S, Kubouchi K, Mehruba M, Abe M, Natsume R, Sakimura K, Eguchi S, Oka M, Hirashima M, Yasuda H, Mukai H

Species
Chemical

Dilution
Not Cited

Year
2017

Cardiovascular research

Temporal neutrophil polarization following myocardial infarction.

"Published figure using BrdU monoclonal antibody (Product # 48-5071-42) in Immunofluorescence"

Authors: Ma Y, Yabluchanskiy A, Iyer RP, Cannon PL, Flynn ER, Jung M, Henry J, Cates CA, Deleon-Pennell KY, Lindsey ML

Species
Chemical

Dilution
Not Cited

Year
2016

[View more ICC/IF references on thermofisher.com](#)

Flow Cytometry (12)

Cell research

Myofiber necroptosis promotes muscle stem cell proliferation via releasing Tenascin-C during regeneration.

"Published figure using BrdU monoclonal antibody (Product # 48-5071-42) in Flow Cytometry"

Authors: Zhou S, Zhang W, Cai G, Ding Y, Wei C, Li S, Yang Y, Qin J, Liu D, Zhang H, Shao X, Wang J, Wang H, Yang W, Wang H, Chen S, Hu P, Sun L

Species
Chemical

Dilution
Not Cited

Year
2020

Cell death & disease

ASH2L drives proliferation and sensitivity to bleomycin and other genotoxins in Hodgkin's lymphoma and testicular cancer cells.

"Published figure using BrdU monoclonal antibody (Product # 48-5071-42) in Flow Cytometry"

Authors: Constantin D, Widmann C

Species
Chemical

Dilution
Not Cited

Year
2020

[View more Flow references on thermofisher.com](#)

More applications with references on thermofisher.com

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