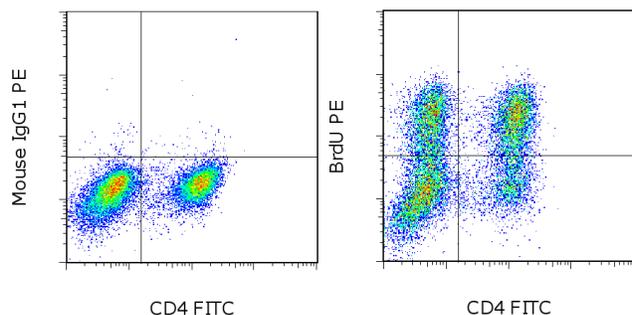


## Anti-BrdU PE

**Catalog Number:** 12-5071

**Also known as:** Bromodeoxyuridine

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Intracellular staining of 3-day Anti-Mouse CD3 and Anti-Mouse CD28 Functional Grade Purified (cat. 16-0031 and 16-0281)-stimulated C57Bl/6 splenocytes using the Foxp3/Transcription Staining Buffer Set (cat. 00-5523) with Anti-Mouse CD4 FITC (cat. 11-0042) and Mouse IgG1 K Isotype Control PE (cat. 12-4714) (left) or Anti-BrdU PE (right). Cells in the lymphocyte gate were used for analysis.

### Product Information

**Contents:** Anti-BrdU PE

**Catalog Number:** 12-5071

**Clone:** BU20A

**Concentration:** 5  $\mu$ L (0.125  $\mu$ g)/test

**Host/Isotype:** Mouse IgG1, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material.

**Batch Code:** Refer to vial

**Use By:** Refer to vial

**Contains sodium azide**



### 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 by intracellular staining and flow cytometric analysis of stimulated mouse splenocytes using the Foxp3/Transcription Staining Buffer Set (cat. 00-5523) or the BrdU Staining Buffer Set (cat. 00-5525) and protocol. This can be used at 5  $\mu$ L (0.125  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test.

### References

Magaud JP, Sargent I, Clarke PJ, Ffrench M, Rimokh R, Mason DY. Double immunocytochemical labeling of cell and tissue samples with monoclonal anti-bromodeoxyuridine. *J Histochem Cytochem.* 1989 Oct;37(10):1517-27. (**Bu20a**, FC)

Beisker W, Dolbeare F, Gray JW. An improved immunocytochemical procedure for high-sensitivity detection of incorporated bromodeoxyuridine. *Cytometry.* 1987;8:235.

Gratzner, D.F., H.G. Pallavicini and M.G. Gray. Flow cytometric measurement of total DNA content and incorporated bromodeoxyuridine. 1983 *Proc. Natl. Acad. Sci. USA* 80:5573.

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Dolbearre F, Gratzner HG, Pallavicini MG, Gray JW. Flow cytometric measurement of total DNA content and incorporated bromodeoxyuridine. 1983 Proc Natl Acad Sci USA.80:5573.

### Related Products

00-5523 Foxp3 / Transcription Factor Staining Buffer Set

00-5525 BrdU Staining Buffer Set

11-0042 Anti-Mouse CD4 FITC (RM4-5)

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.8.1)

16-0031 Anti-Mouse CD3e Functional Grade Purified (145-2C11)

16-0281 Anti-Mouse CD28 Functional Grade Purified (37.51)

65-0863 Fixable Viability Dye eFluor<sup>®</sup> 450

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