

1P-682-T025

Monoclonal Antibody to 5-bromodeoxyuridine (BrdU) Phycoerythrin (PE) conjugated (25 tests)

Clone:	Bu20a
Isotype:	Mouse IgG1
Specificity:	The antibody Bu20a reacts specifically with BrdU incorporated into DNA during S-phase of a cell cycle. It is useful for detecting proliferating cells by flow cytometry or immunohistochemistry staining.
Regulatory Status:	RUO
Immunogen:	Bromodeoxyuridine conjugated to BSA
Preparation:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (0.25 ml) is sufficient for 25 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	Bromodeoxyuridine (BrdU) is a thymidine analog which is selectively incorporated into the DNA of proliferating cells to provide a marker for the DNA being replicated. The number of proliferating cells can then be detected in cell lysates, tissue sections or suspensions using an antibody specific for the BrdU.

For laboratory research only, not for drug, diagnostic or other use.



Antibodies

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.
- O'Driscoll M, Jeggo PA: CsA can induce DNA double-strand breaks: implications for BMT regimens particularly for individuals with defective DNA repair. *Bone Marrow Transplant.* 2008 Jun;41(11):983-9.
- *Pajalunga D, Mazzola A, Salzano AM, Biferi MG, De Luca G, Crescenzi M: Critical requirement for cell cycle inhibitors in sustaining nonproliferative states. *J Cell Biol.* 2007 Mar 12;176(6):807-18.
- *Muskhelishvili L, Latendresse JR, Kodell RL, Henderson EB: Evaluation of cell proliferation in rat tissues with BrdU, PCNA, Ki-67(MIB-5) immunohistochemistry and in situ hybridization for histone mRNA. *J Histochem Cytochem.* 2003 Dec;51(12):1681-8.
- *Lagares A, Li HY, Zhou XF, Avendaño C: Primary sensory neuron addition in the adult rat trigeminal ganglion: evidence for neural crest glio-neuronal precursor maturation. *J Neurosci.* 2007 Jul 25;27(30):7939-53.
- *Shih CH, Whalen BA, Goto Y, Hogg JC, van Eeden SF: Flow cytometric method for enumeration and characterization of newly released polymorphonuclear leukocytes from the bone marrow using 5'-bromo-2'-deoxyuridine. *Am J Physiol Cell Physiol.* 2005 Sep;289(3):C757-65.
- *Martín CA, Surur JM, García MN, Corrons F, Badrán AF: Comparative study of DNA synthesis and nucleolar organizer regions of sinusoid littoral cells in mouse regenerating liver. *Biocell.* 2005 Apr;29(1):33-8.
- *Yatera K, Hsieh J, Hogg JC, Tranfield E, Suzuki H, Shih CH, Behzad AR, Vincent R, van Eeden SF: Particulate matter air pollution exposure promotes recruitment of monocytes into atherosclerotic plaques. *Am J Physiol Heart Circ Physiol.* 2008 Feb;294(2):H944-53.
- *And many other.

Unless indicated otherwise, all products are For Research Use Only and not for diagnostic or therapeutic use. Not for resale or transfer either as a stand-alone product or as a component of another product without written consent of EXBIO. EXBIO will not be held responsible for patent infringement or other violations that may occur with the use of our products. All orders are accepted subject to EXBIO's term and conditions which are available at www.exbio.cz.

For laboratory research only, not for drug, diagnostic or other use.

EXBIO Praha | Nad Safinou II 341 | 252 42 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz