

## Monoclonal Antibody to Bromodeoxyuridine (BrdU) -FITC-

<b>Catalog No.:</b>	SM3005F
<b>Quantity:</b>	100 µg
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	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. Previous methods of detecting DNA included the use of [3H]-thymidine which would be incorporated into the DNA and could then the DNA could be quantified by autoradiography or scintillation counting. These methods are more difficult and require more cleanup due to the radioactive material. An immunohistochemical assay provides a much simpler and cleaner method for detecting DNA in cells.
<b>Host / Isotype:</b>	Mouse / IgG1
<b>Clone:</b>	MoBu-1
<b>Immunogen:</b>	Bromodeoxyuridine conjugated to <i>Helix Pomatia</i> Haemocyanin used to immunize BALB/c mice.
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction. <b>Buffer System:</b> PBS containing 0.08% Sodium Azide as a preservative. <b>Label:</b> FITC
<b>Applications:</b>	<b>Immunohistochemistry.</b> <b>Flow Cytometry</b> (Use at 1-5 µg/10e6 cells). This antibody is also useful for detecting proliferating cells by Flow Cytometry or Immunofluorescence staining. The FITC conjugate is particularly useful in these applications as a secondary antibody and not necessary for visualization. Also, a specific anti-FITC antibody conjugate can be used for signal amplification if desired. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	Reacts with cells containing incorporated BrdU, showing a clear, nucleus confined, speckled pattern.
<b>Storage:</b>	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: One year from despatch.
<b>Product Citation:</b>	Unconjugated antibody is cited in: 1. Sabina Tahirovic, Farida Hellal, Dorothee Neukirchen, Robert Hindges, Boyan K. Garvalov, Kevin C. Flynn, Theresia E. Stradal, Anna Chrostek-Grashoff, Cord Brakebusch,

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and Frank Bradke Rac1 Regulates Neuronal Polarization through the WAVE Complex J. Neurosci., May 2010; 30: 6930 - 6943.

- General References:**
1. Nakamura, S., et al. "Application of bromodeoxyuridine (BrdU) and anti-BrdU monoclonal antibody for the in vivo analysis of proliferative characteristics of human leukemia cells in bone marrows." *Oncology* 1991, 48, 285-289.
  2. Wilson, G., "Cell kinetic studies using a monoclonal antibody to bromodeoxyuridine." *Methods Mol. Biol.* 1998, 80, 255-266.
  3. Gray, J. (Ed), "Special Issue: Monoclonal antibodies against bromodeoxyuridine" *Cytometry* 1985, Vol. 6(6).

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