

#### DESCRIPTION

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| <b>Specificity</b>  | Detects Bromodeoxyuridine/BrdU.  |
| <b>Source</b>       | Monoclonal Mouse IgG <sub>2A</sub> Clone # BU-1  |
| <b>Purification</b> | Protein A or G purified from hybridoma culture supernatant   |
| <b>Immunogen</b>    | 5-iodouridine (5-IO) coupled to ovalbumin  |
| <b>Conjugate</b>    | Alexa Fluor 700<br>Excitation Wavelength: 675-700 nm<br>Emission Wavelength: 723 nm  |
| <b>Formulation</b>  | Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

|   | <b>Recommended Concentration</b> | <b>Sample</b>   |
|---|----------------------------------|---|
| <b>Intracellular Staining by Flow Cytometry</b> | 0.25-1 µg/10 <sup>6</sup> cells  | Human peripheral blood mononuclear cells (PBMCs), treated overnight with 50 ng/mL PMA, 500 ng/mL Ionomycin, and 30 µg/mL BrdU, were then fixed with cold, 70% ethanol for 5 minutes, DNA was denatured with 1.5M HCl for 30 minutes, and then cells were permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005) |

#### PREPARATION AND STORAGE

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| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.                                    |
| <b>Stability &amp; Storage</b> | <b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul> |

#### BACKGROUND

Bromodeoxyuridine (BrdU) is a nucleoside analog that is incorporated into DNA in place of thymidine. The detection of newly synthesized DNA containing BrdU is a commonly used measure of cell proliferation and progression through S phase of the cell cycle.

#### PRODUCT SPECIFIC NOTICES

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