

DESCRIPTION

Specificity	Detects Bromodeoxyuridine/BrdU.
Source	Monoclonal Mouse IgG _{2A} Clone # BU-1
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	5-iodouridine (5-IO) coupled to ovalbumin
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.

	Recommended Concentration	Sample
Intracellular Staining by Flow Cytometry	0.25-1 µg/10 ⁶ 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

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. ● 12 months from date of receipt, 2 to 8 °C as supplied.

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.

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