TECHNICAL DATA SHEET

CyFlow™ BrdU Purified
Clone MoBu-1

REF **BQ947443**

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	5-bromodeoxyuridine
Alternative Names	—
Clone	MoBu-1
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	n/a
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	5-bromodeoxyuridine conjugated with hemocyanine

Specificity

The mouse monoclonal antibody MoBu-1 recognizes specifically BrdU incorporated into DNA during S-phase of a cell cycle. The antibody MoBu-1 is also useful for detecting proliferating cells by flow cytometry or immunofluorescence staining. It reacts also specifically with 5-bromouridine (BrU).

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Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunohistochmistry (paraffin-embedded sections)
- Immunocytochemistry

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

5-bromodexyuridine (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.

References

- Soames AR, Lavender D, Foster JR, Williams SM, Wheeldon EB: Image analysis of bromodeoxyuridine (BrdU) staining for measurement of S-phase in rat and mouse liver. J Histochem Cytochem. 1994 Jul; 42(7):939-44. < PMID: 8014477 >
- Buckiova D, Kubinova L, Soukup A, Jelinek R, Brown NA: Hyperthermia in the chick embryo: HSP and possible mechanisms of developmental defects. Int J Dev Biol. 1998 Jul; 42(5):737-40. < PMID: 9712529 >
- Ashby J, Tinwell H, Soames A, Foster J: Induction of hyperplasia and increased DNA content in the uterus of immature rats exposed to coumestrol. Environ Health Perspect. 1999 Oct; 107(10):819-22. < PMID: 10504149 >
- Stanek D, Kiss T, Raska I: Pre-ribosomal RNA is processed in permeabilised cells at the site of transcription. Eur J Cell Biol. 2000 Mar; 79(3):202-7. < PMID: 10777112 >

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The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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