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30-1486-B: Anti-5-bromodeoxyuridine (BrdU)-Biotin Conjugated Monoclonal Antibody (Clone:Bu20a)

Clonality :	Monoclonal
Clone Name :	Bu20a
Application :	IHC-Fr,IHC,FACS
Conjugate :	Biotin
Gene ID :	35
Alternative Name :	5-bromodeoxyuridine, Bu20a
Isotype :	Mouse IgG1
Immunogen Information :	Bromodeoxyuridine conjugated to BSA

Description

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.

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. It cross-reacts with EdU.

Product Info

Amount :	0.1 mg
Purification :	Purified antibody is conjugated with biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.
Content :	1 mg/ml; Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage condition :	Store at 2-8°C. Do not freeze.

Application Note

Flow cytometry: Recommended dilution: 1-5 µg/ml.

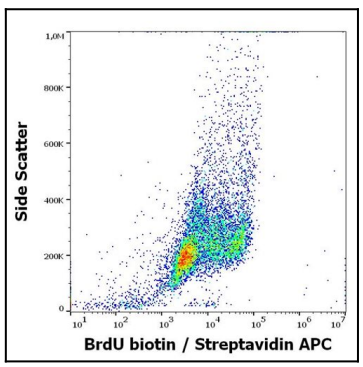

Figure 1: Flow cytometry intracellular staining pattern of BrdU incorporated K562 cells stained using anti-BrdU (Bu20a) Biotin antibody (concentration in sample 0.5 µg/ml, Streptavidin APC).

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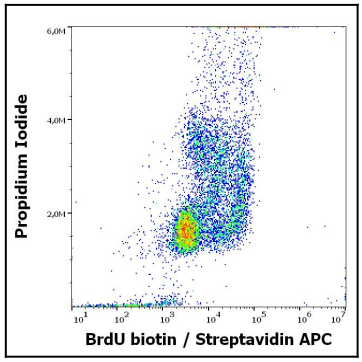

Figure 2: Flow cytometry multicolor intracellular staining pattern of BrdU incorporated K562 cellular suspension using anti-BrdU (Bu20a) Biotin antibody (concentration in sample 0.5 µg/ml, Streptavidin APC) and Propidium Iodide.

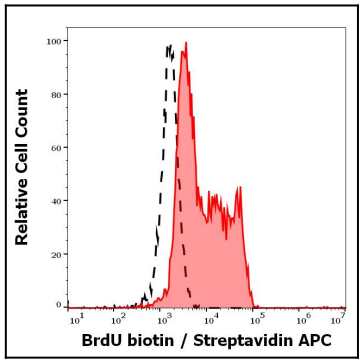

Figure 3: Separation of cells stained using anti-BrdU (Bu20a) Biotin antibody (concentration in sample 0.5 µg/ml, Streptavidin APC, red-filled) from cells unstained by primary antibody (Streptavidin APC, black-dashed) in flow cytometry analysis (intracellular staining) of BrdU incorporated K562 cell suspension.