

Mouse anti-Bromodeoxyuridine, clone IIB5, Purified (Monoclonal)

Clone no. IIB5

MONOSAN

Product name	Mouse anti-Bromodeoxyuridine, clone IIB5, Purified (Monoclonal)
Host	Mouse
Applications	FC (1:100-1:200), IHC, IHC-fr, IHC-P, ICC
Species reactivity	Other
Conjugate	-
Immunogen	BrdU conjugated to Bovine Serum albumin
Isotype	IgG1
Clonality	Monoclonal
Clone number	IIB5
Size	100 ug
Concentration	1 mg/ml
Format	-
Storage buffer	PBS with 0.09% sodium azide
Storage until expiry date	2-8°C

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES

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Additional info

The immunocytochemical detection of bromodeoxyuridine (BrdU) incorporated into DNA is a powerful tool to study the cytokinetics of normal and neoplastic cells. In vitro or in vivo labeling of tumor cells with the thymidine analogue BrdU and the subsequent detection of incorporated BrdU with specific anti-BrdU monoclonal antibodies is an accurate and comprehensive method to quantitate the degree of DNA-synthesis. BrdU is incorporated into the newly synthesized DNA of the S-phase cells and can thus provide an estimate for the fraction of cells in S-phase. Also dynamic proliferative information (such as the S-phase transit rate and the potential doubling time) can be obtained, by means of bivariate BrdU/DNA flow cytometric analysis. IIB5 reacts with bromodeoxyuridine (BrdU) also when incorporated into nuclear DNA. The antibody is known to cross-react with iododeoxyuridine (IdU). Although we have no specific information concerning chlorodeoxyuridine (CldU), it is to be expected that also this antigen is recognized by IIB5. Detection of BrdU incorporated into the DNA needs certain retrieval methods that open up the nucleus and the DNA allow the antibody to reach the antigen. see ref. 1, 5.

References

1. Schutte et al. Cytometry 1987;8:372-376
2. Tinnemans et al. Br J Cancer 1993; 67:1217-1222
3. Schutte et al. Cytometry 1995;21:177-186
4. van Engeland et al. Exp Cell Res 1997;235:421-430
5. Schutte et al. Exp Cell Res 1997;236:4-15

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