Rat Anti-BrdU Monoclonal Antibody

Rat, Monoclonal (BrdU)
Cat. No. DMAB3065
Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview: Monoclonal Antibody to BrdU
Specificity: Reacts with BrdU in single stranded DNA, BrdU attached to a protein carrier or free BrdU. The antibody detects nucleated cells in S-phase which have had BrdU incorporated into their DNA. It also reacts with chlorodeoxyuridine but with reduced staining. Does not cross-react with thymidine.
Clone: C685M
Isotype: IgG2a
Host animal: Rat
Source: Cell culture
Format: HRP, Liquid
Applications: Suitable for use in flow cytometry, immunocytochemistry (1:200-1:500), immunofluorescence and immunohistochemistry (frozen and paraffin sections). Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
Purification: Protein G chromatography
Affinity Constant: Not determined

PACKAGING

Concentration: Lot specific
Buffer: Carbonate/Bicarbonate buffer containing 10mg/ml BSA and 50% glycerol
Preservative: None
Storage: Store (up to 1 month) at 2-8ºC. Long term store at -20ºC.
Warning: This product contains sodium azide, which has been classified as Xn (Harmful) in European Directive 67/548/EEC in the concentration range of 0.1–1.0%. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains.

BACKGROUND

Introduction: 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.
Keywords: 5-BROMO-1-(2-DEOXY-BETA-D-RIBOFURANOSYL)URACIL; 5-BRDU; 5-BROMO DEOXYURIDINE; 5-BROMO-2'-DESOXYURIDINE; (+)-5-BROMO-2'-DEOXYURIDINE; 5-BROMO-2'-DEOXYURIDINE; 2'-DEOXY-5-BROMOROURIDINE; 2'-DEOXY-5-BROMOURIDINE; BUDR; BROMO2'-DEOXYURIDINE,5-; BRUDR; BROXURIDINE; BR-DU; BRDU LABELING REAGENT; BDU; CHEMPACIFIC 52436; 5-bdu; 5-bromodesoxyuridine; 5-bromouracil-2-deoxyriboside; 5-bromouracildeoxyriboside; 5-budr; bromodeoxyuridine; bromouracildeoxyriboside; 5-Bromo-1-(2-deoxy-β-D-ribofuranosyl)uracil; 5-BROMO-2'-DEOXYURIDINE SIGMAULTRA; 5-Bromodeoxyuridine,Crystalline,>98%; 5-Bromo-2'-deoxyuridine, 99+%; Bromo-2'-deoxyuridin; 1-(2-deoxy-β-D-ribofuranosyl)-5-bromouracil; NSC-3829; radibud; 5-Bromo-2'-deoxyridine; 5-Bromo-1-(2-deoxy-β-D-ribofuranosyl)uraci; l 5-Bromouracil deoxyriboside; 5-Bromo-2′-deoxyuridine,5-BrdU, 5-Bromo-1-(2-deoxy-β-D-ribofuranosyl)uracil, 5-Bromouracil deoxyriboside, BUdR; BrdU

REFERENCES

1. Perez-Ruiz A. et al. (2008) “(beta)-catenin promotes self-renewal of skeletal-muscle satellite cells.” J. Cell Sci.
2. Iulianella S. et al. (2008) “Cux2 (Cutl2) integrates neural progenitor development with cell-cycle progression during spinal cord neurogenesis.” Development 135: 729-741

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