Sheep Anti-Brdu Polyclonal Antibody

Sheep, Polyclonal (BrdU)
Cat. No. DPAB1075
Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview: Sheep Antibody to Bromodeoxyuridine (BrdU)
Specificity: Specific to Bromodeoxyuridine. Tested by competitive ELISA.
Immunogen: Bromodeoxyuridine coupled to HGG (Human Gamma Globulin)
Host animal: Sheep
Format: Purified, Liquid
Applications: Suitable for use in Western blot, ELISA, Immunohistochemistry (frozen and paraffin sections) and immunoprecipitation. 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 followed by absorption against HGG to remove unwanted reactivities.

REFERENCES

1. Becker, M., et al., (2007), “Stimulation of Endogenous Neurogenesis by anti-EFRH Immunization in a Transgenic Mouse Model of Alzheimer’s Disease,” PNAS, 104(5): 1691-1696

PACKAGING

Concentration: 1.3 mg/ml
Buffer: 0.15M PBS, pH 7.6
Preservative: None
Storage: Short-term (up to 1 month) store at 2-8°C. Long term, aliquot and store at –20°C. Avoid multiple freeze/thaw cycles.

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. BrdU is incorporated into the newly synthezised DNA of S-phase cells may 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.
Keywords: 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 synthezised DNA of S-phase cells may 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.

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