



**Category:** Monoclonal Antibodies      **Cat. #** 1107NF-V3246      **Product Name:** Bromodeoxyuridine (BrdUrd) – Concentrated

**Description:**

Monoclonal Mouse Anti-Bromodeoxyuridine (BrdUrd)

**Immunogen:**

Bromodeoxyuridine conjugated to bovine serum albumin.

**Application:**

Immunohistochemistry 1:50 -1:100.

**Species Reactivity:**

All species.

**Recommended Positive Control:**

Granulocytes line incorporated with BrdUrd into their DNA in place of thymidine during the S-phase of the Granulocytes cycle. Incorporation in vivo of BrdUrd by intravenous infusion, and removal of Tissue.

**Presentation:**

20 mM tris-borate, 150 mM Sodium Chloride, dialyzed media RPMI 1640/D-MEM containing fetal bovine serum, BMC-6 carrier polysaccharides, carrier protein, and 0.05% Sodium Azide, pH 7.5.

**Aliquoting Instructions:**

Do not dilute the entire reconstituted solution at once. Withdraw aliquots as needed with a micropipette and keep concentrated stock at 4°C. Dilute according to the particular application being used. In general, the 0.05M borate pH 8.0 containing 0.15M sodium chloride, 0.02% sodium azide, is a good diluent to use with most antibodies. When diluting for immunohistochemistry, ELISA or western blot, make the dilution in Antibody Diluting Buffer. Avoid diluting the entire contents of the vial at once since the diluted solution may have reduced stability.

**Staining Procedure:**

This antibody can be used on formalin-fixed, paraffin-embedded tissue sections. For a three-step avidin-biotin complex system, a dilution of 1:50 to 1:100 may be used as a guideline. We recommend an incubation time and temperature of 30 minutes at 37°C for this antibody, when used in conjunction with an immunoperoxidase staining kit. The optimum conditions should be determined by the individual laboratory. For formalin-fixed, paraffin-embedded tissue sections, enzymatic predigestion with proteolytic enzymes is recommended. Subsequently incubate the slides for 45 minutes in 95% formamide in 0.15M trisodium citrate at 70°C for the partial denaturation of double stranded DNA.

**Specificity:**

This antibody recognizes BrdUrd in single stranded DNA, free BrdUrd or BrdUrd coupled to protein carriers. The antibody binds to the cells that have incorporated BrdUrd into their DNA during the S-phase of the cell cycle. It recognizes BrdUrd in the nuclei of a wide range of cell types.

**Storage:**

Store at 2~8o C for short term, freeze under -20oC for long term storage.

**Size:** 0.5 ml

**Clone:** B33.1

**Isotype:** IgG1, k

**Host:** Mouse

**Form:** Concentrated

**Concentration:** 0.4 mg/ml

**Units On Hand:** YES

**References:**

1. Harms, G. et al, Acta Histochemical Supply Band, XXXVI S.: 353-359, 1988
2. Thiry, M. and Dombrowicz, D., Biol Cell., 62: 99-102, 1988
3. Gonchoroff, N.J. et al, Cytometry, 6: 506-512, 1985
4. Vanderlaan, M. and Thomas, C., Cytometry, 6: 501-505, 1985
5. Gratzner, H.G., Science, 218: 474-475, 1982

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