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BrdU

Reactivity: Iododeoxyuridine

Tested applications:IHC IF FC

Recommended Dilution:IHC 1:50 - 1:500 IF 1:50 - 1:500 FC 1:50 - 1:500

Observed MW: Refer to Figures

Immunogen:

Bromodeoxyuridine

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

BrdU; Bromodeoxyuridine

Catalog #:A1482

Antibody Type:

Monoclonal Antibody

Species: Mouse

Isotype: IgG1

Purity: Affinity purification

For research use only.

Background:

The halogenated pyrimidine thymidine analog bromodeoxyuridine (BrdU) is incorporated into newly synthesized DNA strands of S phase cells and is useful for estimating the fraction of cells in S phase. Additionally, the analysis of the uptake of BrdU is a reliable method to quantitate the degree of DNA synthesis. BrdU is also useful for studying sister chromatid exchange and to isolate nascent DNA. UV-induced excision-repair synthesis is one method for incorporating BrdU into cellular DNA. Anti-BrdU antibodies bind to the exposed BrdU in single-stranded DNA after a hydrochloric acid denaturation step or nuclease digestion. Protease antigen recovery is necessary for most tissues or cells fixed with cross-linking agents such as formalin but may decrease the specificity of BrdU immunodetection. The monoclonal antibody Bu20a against BrdU stains BrdU incorporated into the nulcei of a wide range of proliferating cell types including human tumors growing in nude mice and tonsil lymphoid.

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