

Mouse anti-Bromodeoxyuridine Monoclonal Antibody

Cat. No. CAB057 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Source Mouse

Antigen Information

Bromodeoxyuridine (5-bromo-2-deoxyuridine, BrdU) is a synthetic nucleoside which is an analogue of thymidine. BrdU is commonly used in the detection of proliferating cells in living tissues. BrdU can be incorporated into the newly synthesized DNA of replicating cells (during the S phase of the cell cycle), substituting for thymidine during DNA replication. Antibodies specific for BrdU can then be used to detect the incorporated chemical (see immunohistochemistry), thus indicating cells that were actively replicating their DNA. Binding of the antibody requires denaturation of the DNA, usually by exposing the cells to acid or heat. Because BrdU can replace thymidine during DNA replication, it can cause mutations, and its use is therefore potentially a health hazard.

CAS number 59-14-3

Molar mass 307.098

Molecular formula C₉H₁₁BrN₂O₅

concentration 100g/0.2ml 500g/1ml

Application WB=1:200-500 Elisa =1:500-2000 IP=1:20-100 IHC=1:200-500

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