# Mouse anti-Bromodeoxyuridine Monoclonal Antibody

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

## SPECIFICATION

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| **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** | $C_9H_{11}BrN_2O_5$ |
| **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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