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# Product datasheet for CF190219

## BrdU Mouse Monoclonal Antibody [Clone ID: OTI2B5]

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | OTI2B5 |
| **Applications:** | FC, IF, IHC |
| **Recommended Dilution:** | IHC 1:150, IF 1:150 |
| **Host:** | Mouse |
| **Isotype:** | IgG1 |
| **Clonality:** | Monoclonal |
| **Immunogen:** | Bromodeoxyuridine coupled to keyhole limpet hemocyanin (KLH). |
| **Formulation:** | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose) |
| **Reconstitution Method:** | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| **Purification:** | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store at -20°C as received. |
| **Stability:** | Stable for 12 months from date of receipt. |
| **Note:** | 5-chloro-2'-deoxyuridine (ClDU), 5-bromo-2'-deoxyuridine (BrdU), 5-iodo-2'-deoxyuridine (IdU) and 5-ethynyl-2'-deoxyuridine (EdU) are nucleoside analogs of thymidine. Cells that treated with these analogs will incorporate the chemicals into the genomic DNA during S-phase. Immunochemical method detection of these analogs is thus used to quantify the cell proliferation, cell cycle status in vitro or in vivo. Since the thymidine analogs can be passed onto the daughter cells, they can also used to trace dividing cell fate in a short period of time over 3 generations. In addition, combination of different analogs and their specific antibodies can be used to trace cell fate in different time frames. |

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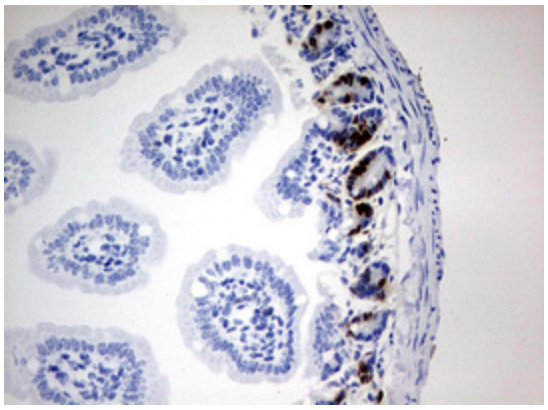
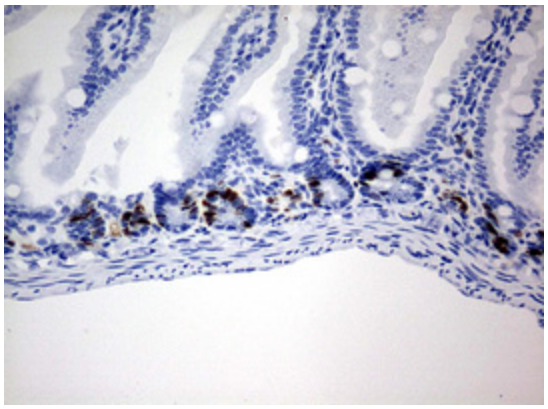
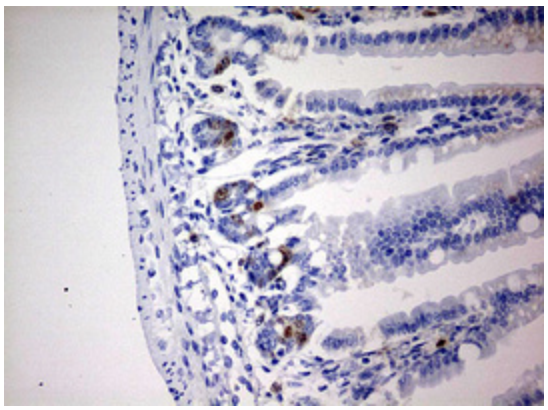
## Product images:



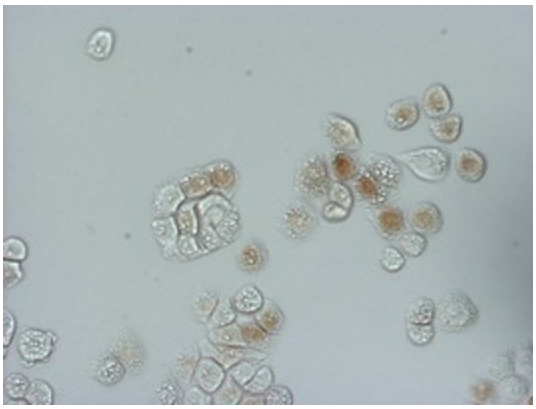
Immunohistochemical staining of paraffin-embedded colon tissue from BrdU injected mouse using anti-BrdU mouse monoclonal antibody ([TA190219])



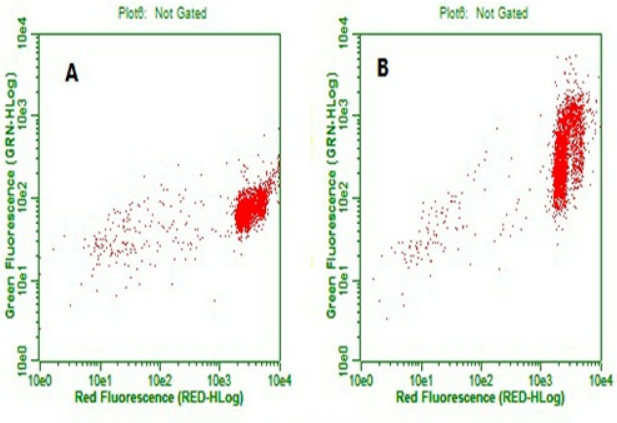
Immunohistochemical staining of paraffin-embedded colon tissue from IDU injected mouse using anti-BrdU mouse monoclonal antibody ([TA190219])



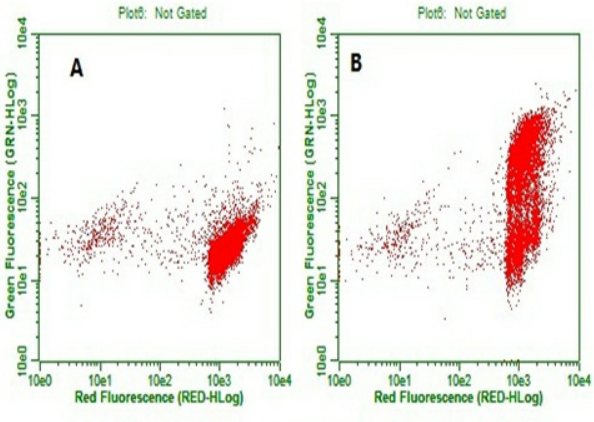
Immunohistochemical staining of paraffin-embedded colon tissue from CIDU injected mouse using anti-BrdU mouse monoclonal antibody ([TA190219])



Immunocytochemistry staining of HT-29 cells pulsed with 5-bromo-2'-deoxyuridine (BrdU)using mouse




Flow cytometric Analysis of Hela cells, using anti-BrdU antibody ([TA190219]). Hela cells were treated with vehicle (A, PBS) or incorporated with BrdU (B, 15μM, 30 minutes) (1:100).




Flow cytometric Analysis of Jurkat cells, using anti-BrdU antibody ([TA190219]). Jurkat cells were treated with vehicle (A, PBS ) or incorporated with BrdU (B, 15μM, 30 minutes) (1:100).