



11-286-C025

Monoclonal Antibody to 5-bromodeoxyuridine (BrdU) Purified Antibody (0.025 mg)

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| Clone: | MoBu-1 |
| Isotype: | Mouse IgG1 |
| Specificity: | The antibody MoBu-1 reacts specifically with BrdU incorporated into DNA during S-phase of a cell cycle. The antibody MoBu-1 is also useful for detecting proliferating cells by flow cytometry or immunofluorescence staining. It reacts also specifically with 5-bromouridine (BrU). |
| Regulatory Status: | RUO |
| Immunogen: | 5-bromodeoxyuridine conjugated with hemocyanine. |
| Application: | Immunohistochemistry (paraffin sections) Application note: excellent Flow Cytometry Recommended dilution: 1-2 µg/ml Immunocytochemistry Recommended dilution: 2 µg/ml |
| Purity: | > 95% (by SDS-PAGE) |
| Purification: | Purified by protein-A affinity chromatography |
| Concentration: | 1 mg/ml |
| Storage Buffer: | Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 |
| Storage / Stability: | Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label. |
| Expiration: | See vial label |
| Lot Number: | See vial label |
| Background: | Bromodeoxyuridine (BrdU) is a thymidine analog which is selectively incorporated into the DNA of proliferating cells to provide a marker for the DNA being replicated. The number of proliferating cells can then be detected in cell lysates, tissue sections or suspensions using an antibody specific for the BrdU. |
| References: | *Ashby J, Tinwell H, Soames A, Foster J: Induction of hyperplasia and increased DNA content in the uterus of immature rats exposed to coumestrol. <i>Environ Health Perspect.</i> 1999 Oct;107(10):819-22. *Soames AR, Lavender D, Foster JR, Williams SM, Wheeldon EB: Image analysis of bromodeoxyuridine (BrdU) staining for measurement of S-phase in rat and mouse liver. <i>J Histochem Cytochem.</i> 1994 Jul;42(7):939-44. *Buckiova D, Kubinova L, Soukup A, Jelinek R, Brown NA: Hyperthermia in the chick embryo: HSP and possible mechanisms of developmental defects. <i>Int J Dev Biol.</i> 1998 Jul;42(5):737-40. *Stanek D, Kiss T, Raska I: Pre-ribosomal RNA is processed in permeabilised cells at the site of transcription. <i>Eur J Cell Biol.</i> 2000 Mar;79(3):202-7. |

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