

## Product datasheet for **BM6048P**

### Bromodeoxyuridine / BrDU Mouse Monoclonal Antibody [Clone ID: IIB5]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	IIB5
Applications:	FC, IF, IHC
Recommended Dilution:	<b>Flow Cytometry, Immunocytochemistry. Immunohistochemistry on Frozen Sections. Immunohistochemistry on Paraffin Embedded tissues.</b> <i>Recommended Dilutions:</i> 1/100-1/200 for Flow Cytometry, and for Immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent. For the specific labeling and staining <b>Protocols</b> see References 1-3.
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	IIB5 is a mouse monoclonal IgG1 antibody derived by fusion of SP2/0-Ag14 mouse myeloma cells with spleen cells from a BALB/c mouse intraperitoneally immunized with BrdU conjugated to BSA
Specificity:	IIB5 reacts with Bromodeoxyuridine (BrdU) also when incorporated into nuclear DNA. The antibody is known to cross-react with Iododeoxyuridine (IdU). Although we have no specific information concerning Chlorodeoxyuridine (CldU), it is to be expected that also this antigen is recognized by IIB5.
Formulation:	PBS State: Purified State: Liquid purified IgG fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freeze-thaw cycles.

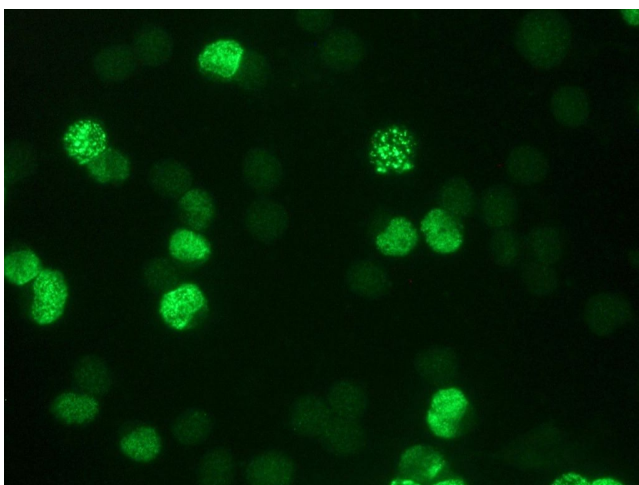


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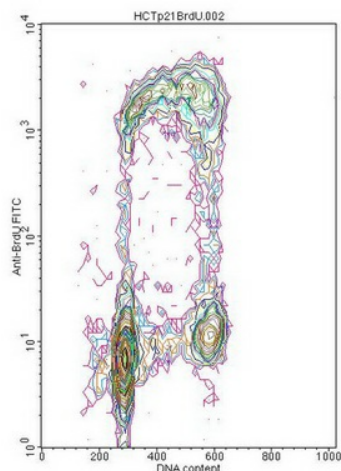
**Stability:** Shelf life: One year from despatch.

**Background:** The immunocytochemical detection of bromodeoxyuridine (BrdU) incorporated into DNA is a powerful tool to study the cytokinetics of normal and neoplastic cells. In vitro or in vivo labeling of tumor cells with the thymidine analogue BrdU and the subsequent detection of incorporated BrdU with specific anti-BrdU monoclonal antibodies is an accurate and comprehensive method to quantitate the degree of DNA-synthesis. BrdU is incorporated into the newly synthesized DNA of the S-phase cells and can thus provide an estimate for the fraction of cells in S-phase. Also dynamic proliferative information (such as the S-phase transit rate and the potential doubling time) can be obtained, by means of bivariate BrdU/DNA flow cytometric analysis.

**Product images:**



Indirect immunofluorescence staining of BrdU-labeled MR65 lung cancer cells using BM6048P (IIB5)



Flow Cytometric analysis of the BrdU-labeled fraction in a tissue cell culture.