ImmunoBioScience Corp. (IBSC) *DATA SHEET*

Bromodeoxyuridine (BrdU), Mouse MAb **anti-**

**Catalog number:** MM-1006**-**010.5 ml Concentrated IgG1 0.2 mg/ml

MM-1006-02 1.0 ml Concentrated . IgG1 0.2 mg/ml

MM-1006-04 7.0 ml Prediluted for IHC IgG1 ~7µg/ml)

MM-1006-15 0.5 ml FITC~conjugated IgG1 0.2 mg/ml

MM-1006-16 1.0 ml FITC~conjugated IgG1 0.2 mg/ml

**Buffer:** The concentrated antibodies are supplied in PBS with 1% BSA, 0.05% azide, pH 7.4. The Prediluted antibody is supplied in our Universal antibody dilution buffer (AR-6526) green in color.

**Description:** 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 to BrdU can then be used to detect the incorporated chemical; thus indicating cells that were actively replicating their DNA. Binding of the antibody requires denaturation of the DNA by heat or acid.

**Intended Use**: Immunohistochemistry (IHC), Immunocytchemistry (ICC)

Immunofluorescence (IF), Flow cytometry (not tested at our lab).

**Storage: 2-8°C**

**Clone**: BrdU 206 **Isotype:** IgG1/κ

**Epitope:** Bromodeoxyuridine

**Immunogen:** BrdU conjugated to KLH

**Species reactivity:** All species

**Cellular Localization:** Nuclear

**Recommended positive control:** Liver ofexperimental animal injected with BrdU or cell line grown in presence of BrdU.

**Application:** IHC, ICC (frozen or formalin–fixed paraffin-embedded (FFPE) tissue sections, cell smears)

For IHC dilute conc. antibodies 1:50-1:100, use streptavidin~biotin system or polymer system, incubate 30 minutes at room temperature.

Prediluted antibody is ready to be used for IHC.

(For staining of FFPE tissue sections, incubate with 4 N HCl for 20 minutes at RT, followed by treatment with proteolytic digestion for 10 minutes at RT. (Please refer to our Trypsin (AR-6541), Pronase (AR-6542) or pepsin (AR-6543) data sheets.

IF, FITC~conjugated antibodies 10-20 µg/ml (1:10-1:20), incubate for 2 hours in the dark at RT or it can also be incubated overnight at 4ºC.

Flow: FITC~conjugated antibodies, 0.2-1.0 µg/0.1 ml (1:200-1:1,000) (Not tested in our lab).

The optimum dilution should be determined by the individual lab.

**General References:**

1. Williamson K et.al. Cytometry, 15: 162-168, 1994.
2. Meyer JS et.al. Cancer, 71: 3531-3540, 1993Patel, S et.al. Gut, 34:893-896, 1993

**Limitation and warranty:** Our warranty is limited to the actual price paid for the product. We are not liable for any property damage, personnel injury, time, effort or economic loss due to our product.

**MSDS:** This product contains 0.05 % sodium azide as a preservative, appropriate care should be taken in handling. National Institute of Occupational Safety and Health has warning that sodium azide can react with lead, copper, brass or solder in the plumbing system and forms hydrazoic acid in acidic condition. Discard with copious amount of water. Avoid skin and eye contact with all laboratory products. Use appropriate lab. gear, lab coat , gloves and safety glasses. Do not ingest any lab. products. This product is not approved for administration in human or animal

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