

Datasheet



Mouse mAb to **BrdU**
Clone **MoBU-1 (85-2C8)**
Isotype **IgG1-κ**

Source

A BALB/c mouse was immunized with a conjugate of bromodeoxyuridine and *Helix pomatia* hemocyanin (HPH). The conjugate was prepared using periodate oxidation. Fusion partner: P3-X63-Ag8.653.

Specifications

MoBU-1 is reactive with cells containing incorporated 5-bromodeoxyuridine (BrdU) showing a clear, nucleus confined, speckled pattern. BrdU is an analogue of thymidine and can be introduced to proliferating cells in vitro or in vivo, which in turn incorporate BrdU into the DNA during S phase, prior to cell division. Immunocytochemical staining with MoBU-1 will show the degree of proliferation, detecting nucleated cells which have incorporated BrdU in place of thymidine into their DNA.

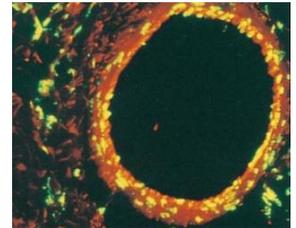


Figure 1: Forming blood vessel stained with 85-2C8

Species reactivity

Positive: all species.

Applications

Immunocytochemistry on frozen and paraffin sections. Immunofluorescence tests.

Flow cytometry	Frozen sections	Immunofluorescence	Paraffin sections
+	+	+	HCl/protease

Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02% sodium azide. Stored at 4°C-8°C, shelf life is at least 24 months after purchase.

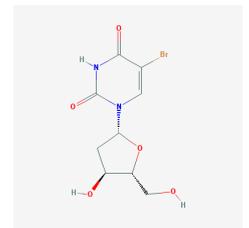


Figure 2: BrdU

Dilution advice

- Flow cytometry (0,5-1,0 µg/million cells in 0,1 ml, fix cells in 4% PFA for 10 min, at 4°C, permeabilize with 0,2% saponin or digitonin for 15 min, at 4°C).
- Immunofluorescence (0,5-1,0 µg/ml).
- Immunohistology (2-4 µg/ml for 30 min at RT; staining of formalin-fixed tissues requires pre-treatment of sections with 4N HCl for 30 minutes at RT to denature double-stranded DNA, followed by digestion with trypsin at 1 mg/ml PBS for 20 min at RT or 10 min at 37°C).

Positive control

Cultured cells grown in presence of BrdU or tissues from experimental animals injected with BrdU.

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References

- Harms et al. *Acta Histochemica*, **Suppl. Band 36**, 353-359 (1988).
- Arras et al. *J Clin Invest.* **101(1)**, 40-50 (1998).