Bromodeoxyuridine (BrdU) Ab-3 (Clone BRD.3)

Mouse Monoclonal Antibody
Cat. #MS-1058-P0, -P1, or -P (0.1ml, 0.5ml, or 1.0ml at 40µg/ml) (Purified Ab with BSA and Azide)
Cat. #MS-1058-P1ABX or -PABX (0.1ml or 0.2ml at 1.0mg/ml) (Purified Ab without BSA and Azide)
Cat. #MS-1058-B0, -B1, or -B (0.1ml , 0.5ml, or 1.0ml at 40 µg/ml) (Biotin-labeled Ab with BSA and Azide)
Cat. #MS-1058-R7 (7.0ml) (Ready-to-Use for Immunohistochemical Staining)
Cat. #MS-1058-PCS (5 Slides) (Positive Control for Histology)

Description: BrdU is a thymidine analog, incorporated into cell nuclei during DNA synthesis prior to mitosis. Antibody to BrdU is helpful in detecting S-phase cells, providing useful information on the aggressiveness of tumors.

Comments: Ab-3 reacts with Bromodeoxyuridine (BrdU) in single stranded DNA (produced by partial denaturation of double stranded DNA), BrdU coupled to a protein carrier, as well as free BrdU.

Species Reactivity: All species

Clone Designation: BRD.3

Ig Isotype: IgG1

Immunogen: Bromodeoxyuridine (BrdU) conjugated to BSA.

Applications and Suggested Dilutions:
- Flow Cytometry
- Immunofluorescence
- Immunohistology (Formalin/paraffin)
  (Use Ab at 1:500 for 20 minutes at RT using the LP system)
  [For staining of formalin-fixed tissues, incubate sections in 4N HCl for 30 minutes at RT followed by digestion with trypsin at 1mg/ml PBS, 10 min at 37°C (Cat. #AP-9008)]

The optimal dilution for a specific application should be determined by the investigator.

Staining tips: If the staining is too light, use lower dilution or longer time.
If the staining is too strong, use higher dilution or shorter time.

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

Cellular Localization: Nuclear

Storage and Stability: Ab with sodium azide is stable for 24 months when stored at 2-8°C. Antibody WITHOUT sodium azide is stable for 36 months when stored at below 0°C.

Supplied As: 40µg/ml antibody purified from the ascites fluid by Protein G chromatography. Prepared in 10mM PBS, pH 7.4, with 0.2% BSA and 0.09% sodium azide. Also available without BSA and azide at 1mg/ml, or Prediluted antibody which is ready-to-use for staining of formalin-fixed, paraffin-embedded tissues.

Suggested References:

Limitations and Warranty:
Our products are intended FOR RESEARCH USE ONLY and are not approved for clinical diagnosis, drug use or therapeutic procedures. No products are to be construed as a recommendation for use in violation of any patents. We make no representations, warranties or assurances as to the accuracy or completeness of information provided on our data sheets and website. Our warranty is limited to the actual price paid for the product. NeoMarkers is not liable for any property damage, personal injury, time or effort or economic loss caused by our products.

Material Safety Data:
This product is not licensed or approved for administration to humans or to animals other than the experimental animals. Standard Laboratory Practices should be followed when handling this material. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Appropriate measures should be taken to avoid skin and eye contact, inhalation, and ingestion. The material contains 0.09% sodium azide as a preservative. Although the quantity of azide is very small, appropriate care should be taken when handling this material as indicated above. The National Institute of Occupational Safety and Health has issued a bulletin citing the potential explosion hazard due to the reaction of sodium azide with copper, lead,
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Manufactured by:
NeoMarkers
For Lab Vision Corporation

For Research Use Only

Additional Suggested References:

1. Williamson K; Gilliland R; Weir H; Grimes J; Hamilton P; Anderson N; Crockard A; Rowlands B. Hydrochloric acid denaturation of colorectal tumour tissue infiltrated with bromodeoxyuridine. Cytometry, 1994, 15(2):162-8.


9. Miwa H; Wada R; Abe H; Ohkura R; Yang SW; Watanabe H; Ogidera T; Hamada T; Sato N. Diagnosis of gastric adenoma versus early gastric cancer by bromodeoxyuridine immunohistochemistry from gastric biopsy specimen. Journal of Gastroenterology and Hepatology, 1993, 8(2):133-7.


14. Sanders EJ; Varedi M; French AS. Cell proliferation in the gastrulating chick embryo: a
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