EXBIO Antibodies

PRODUCT DATA SHEET

11-286-C100

Monoclonal Antibody to 5-bromodeoxyuridine (BrdU) Purified Antibody (0.1 mg)

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 2-8ºC. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration:	See vial label
Lot Number:	See vial label
Background:	Bromodexyuridine (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. Environ Health Perspect. 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. J Histochem Cytochem. 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. Int J Dev Biol. 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. Eur J Cell Biol. 2000 Mar;79(3):202-7.

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