

## Product datasheet for **AM31409PU-N**

### Bromodeoxyuridine / BrdU Mouse Monoclonal Antibody [Clone ID: 131-14871 (AH4H7-1)]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	131-14871 (AH4H7-1)
Applications:	FC, IHC
Recommended Dilution:	<b>Flow Cytometry.</b> <b>Immunohistochemistry.</b>
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	Bromodeoxyuridine (BrdU), a thymidine analogue, is incorporated into DNA during replication. This antibody reacts with cells that incorporated BrdU during proliferation activity in a variety of specimens such as tumors, blood, cell lines and tissues.
Formulation:	10mM Tris, pH 7.5 containing 150mM Sodium Chloride State: Purified State: Liquid purified IgG fraction (> 90% pure by SDS-PAGE). Product is 0.2 µm filtered. Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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**Background:**

Bromodeoxyuridine (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. Previous methods of detecting DNA included the use of [3H]-thymidine which would be incorporated into the DNA and could then the DNA could be quantified by autoradiography or scintillation counting. These methods are more difficult and require more cleanup due to the radioactive material. An immunohistochemical assay provides a much simpler and cleaner method for detecting DNA in cells.