

**BrdU (bromodeoxyuridine). Sheep Polyclonal Antibody**

**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 [<sup>3</sup>H]-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. This antibody is also useful for detecting proliferating cells by flow cytometry or immunofluorescence staining.

**ORDERING INFORMATION**

**CATALOG NUMBER**

A205P

**SIZE**

250 µg

**FORM**

Unconjugated

**HOST/CLONE**

Sheep

**FORMULATION**

Provided as solution in phosphate buffered saline with 0.08% sodium azide

**CONCENTRATION**

See vial for concentration

**ISOTYPE**

IgG

**APPLICATIONS**

Western Blot, Immunoprecipitation, Immunohistochemistry

**SPECIES REACTIVITY**

N/A

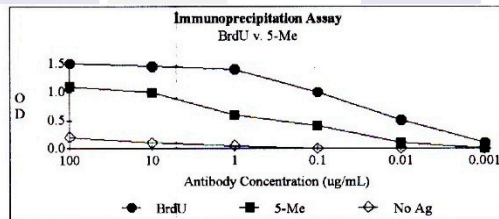
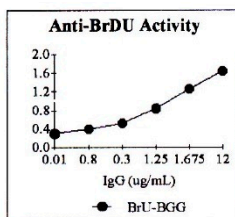
**ACCESSION NUMBER**

Not Applicable, Not Applicable

**IMMUNOGEN**

Bromodeoxyuridine conjugated to *Helix Pomatia* Haemocyanin.

Activity assay using BrdU antibody (Cat. No. A205P) against BrdU labeled BGG (left). Immunoprecipitation assay using BrdU antibody on BrdU, 5-methyl cytosine (5-Me) and control (No Ag).



## **POSITIVE CONTROL/TISSUE EXPRESSION**

### **COMMENTS**

Applications: Western blotting: 25 -100 µg/ml; Immunoprecipitation: 25-100 µg/ml; Immunohistochemistry: 25-100 µg/ml The antibody has been tested using immunoprecipitation against 5-methyl cytosine (5-MeC) and bromodeoxyuridine (BrdU) or a control (no antigen). At a concentration of 25 ug/ml, this product demonstrates 8-fold higher reactivity with 5-MeC versus BrdU. For best results, use product at 25-100µg/ml.  
Note: Denature DNA sample first so that bases are accessible to anti BrdU antibody.

### **PURIFICATION**

Ammonium Sulfate Precipitation

### **SHIP CONDITIONS**

Room Temperature

### **STORAGE CUSTOMER**

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

### **STABILITY**

Products are stable for one year from purchase when stored properly

### **REFERENCES**

1. Nakamura, S., et al. Application of bromodeoxyuridine (BrdU) and anti-BrdU monoclonal antibody for the in vivo analysis of proliferative characteristics of human leukemia cells in bone marrows. *Oncology* 1991, 48, 285-289
2. Wilson, G., Cell kinetic studies using a monoclonal antibody to bromodeoxyuridine. *Methods Mol. Biol.* 1998, 80, 255-266
3. Gray, J. (Ed), Special Issue: Monoclonal antibodies against bromodeoxyuridine *Cytometry* 1985, Vol. 6(6)