

PE/Cyanine7 anti-BrdU

Catalog # / Size: 2420590 / 100 tests
2420585 / 25 tests

Clone: 3D4

Isotype: Mouse IgG1, κ

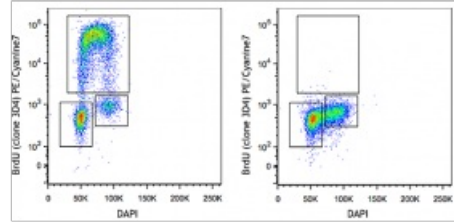
Immunogen: Iodouridine-conjugated ovalbumin

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions. The solution is free of unconjugated PE/Cyanine7 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Workshop Number: HCDM listed

Concentration: Lot-specific



Ramos cell line was pulsed with BrdU for 1 hour (left panel) or without (right panel) and then stained with anti-BrdU (3D4) PE/Cyanine7. Cells were subsequently stained with 1 μ g of DAPI for DNA analysis.

Applications:

Applications: Intracellular Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 μ l per million cells in 100 μ l staining volume or 5 μ l per 100 μ l of whole blood.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemistry and fluorescence microscopy.

- Application References:**
1. Dolbeare F, *et al.* 1983. *Proc. Natl. Acad. Sci. USA* 80:5573.
 2. Hirota K, *et al.* 2007. *J. Exp. Med.* 204:41.
 3. Godebu E, *et al.* 2008. *J. Immunol.* 181:1798.
 4. Waskow C, *et al.* 2008. *Nat. Immunol.* 9:676.

Description: BrdU is a uridine derivative and a structural analog of thymidine, which can be incorporated into DNA during the S-phase of a cell cycle as a substitute for thymidine. Cells can be pulse-labeled with BrdU and analyzed with antibodies against BrdU to determine the proportion of cells in the S-phase of the cell cycle during a given interval.

- Antigen References:**
1. Barker JM, *et al.* 2013. *PLoS One* 8:e63692.
 2. Duque A and Rakic P. 2011. *J. Neurosci.* 31:15205.
 3. Robbins S, *et al.* 2011. *J. Vis. Exp.* 55:2855.
 4. Broekhuizen CA, *et al.* 2010. *Infect Immun.* 78:954.
 5. van der Wath RC, *et al.* 2009. *PLoS One* 4:e6972.
 6. Dolbeare F, *et al.* 1985. *Cytometry* 6:521.
 7. Gratzner HG. 1982. *Science* 218:474.