

Anti-CD19 in rhesus monkeys

BACKGROUND:

- ☞ J3.119 clone is the only anti-CD19 antibody that cross reacts with macaque monkeys.
- ☞ In 2005, Beckman Coulter's formulation of this antibody stopped staining monkey B cells. We later determined that a higher concentration of this antibody is needed for staining monkey cells than for staining human cells. Since then, the NHP Reagent Resource has provided a custom formulation of this antibody at a concentration high enough to stain monkey cells.
- ☞ Lot 43 of antibody currently being distributed by Beckman Coulter is again at a concentration sufficient to stain monkey B cells.

RESULTS:

- ☞ Human B cells stain similarly over a range of 2.5 to 40 ul per test.
- ☞ Rhesus B cells stained marginally well at 20 ul/test and better at 40 ul per test.

RECOMMENDATION:

- ☞ Purchase and use Beckman Coulter anti-CD19-PE (IM1285U Clone J3.119).
- ☞ Double amount used for staining from 20ul/test to 40ul/test.
- ☞ Specify lot 43 when ordering. This is the only lot tested for staining monkey B cells.

