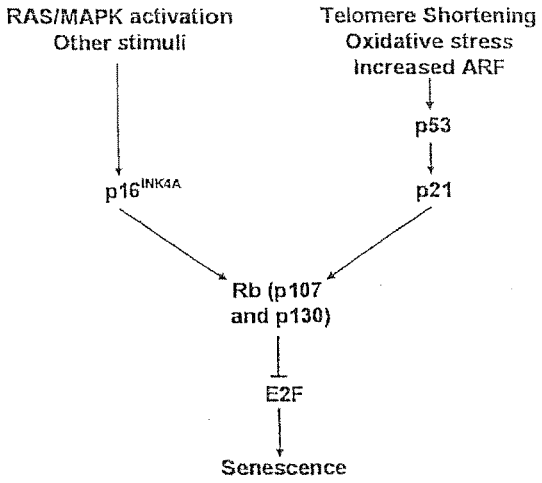


Figure 1. Pathways triggering senescence.

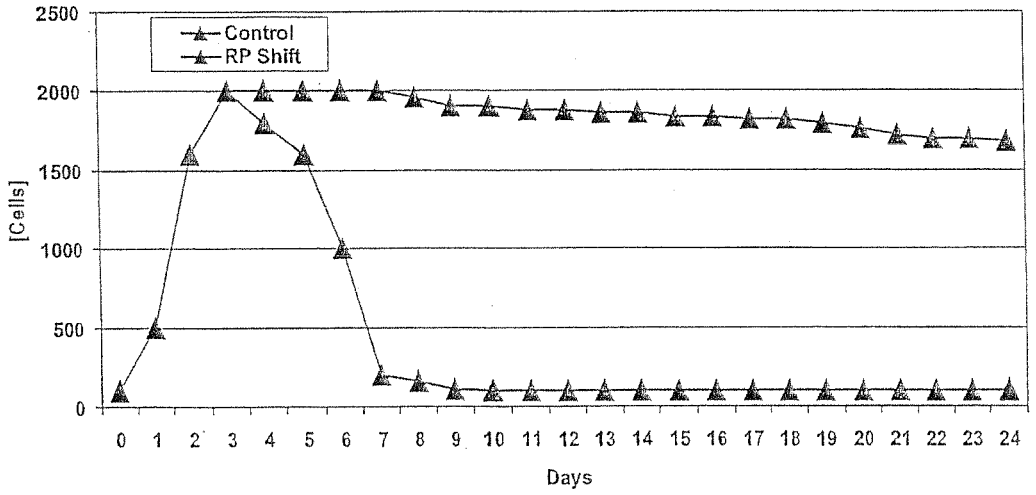


Figure 2. Time course for blocking cellular growth of CH450 hybridoma cells following induction of senescence-triggering factors by doxycycline (2μM). Shown are the numbers of viable cells counted each day during culture. Squares represent cells not exposed to doxycycline (2μM) Triangles represent cells containing senescence-triggering factors induced with doxycycline (2μM).

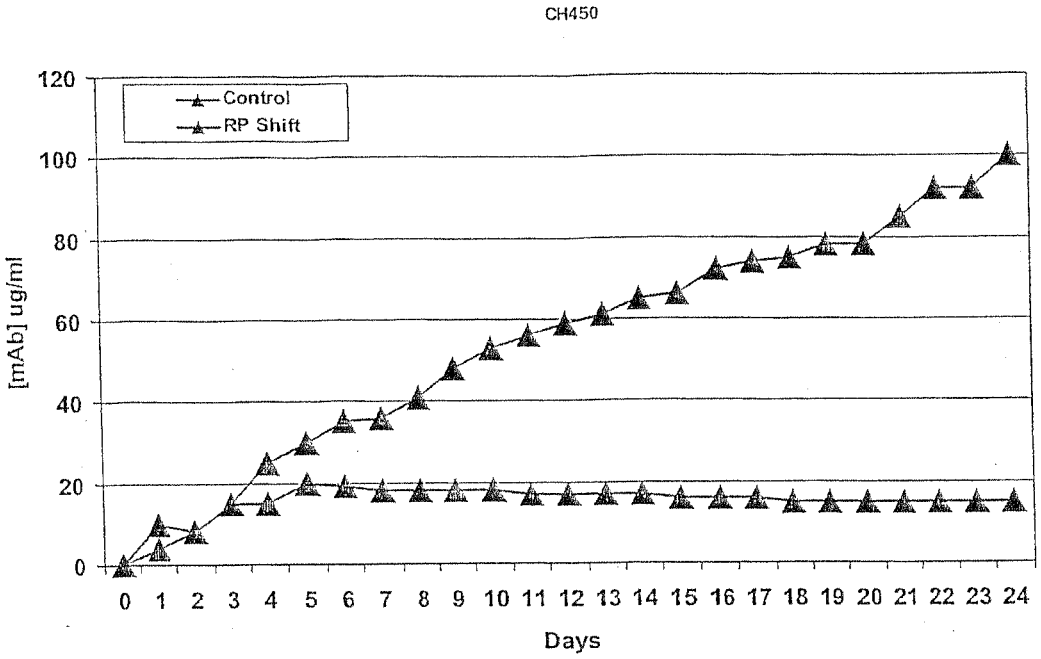


FIGURE 3. Enhanced production of Mab from CH450 hybridoma cells following induction of senescence-triggering factors by doxycycline (2μM). Secreted alkaline phosphatase is measured by hydrolysis of p-nitrophenyl-phosphate substrate by the enzyme isolated from media removal in control or induced cultures. Cells containing senescence-triggering factors were not exposed (Control, red) or exposed (Doxycycline, green) to 2μM doxycycline for a period of a week.

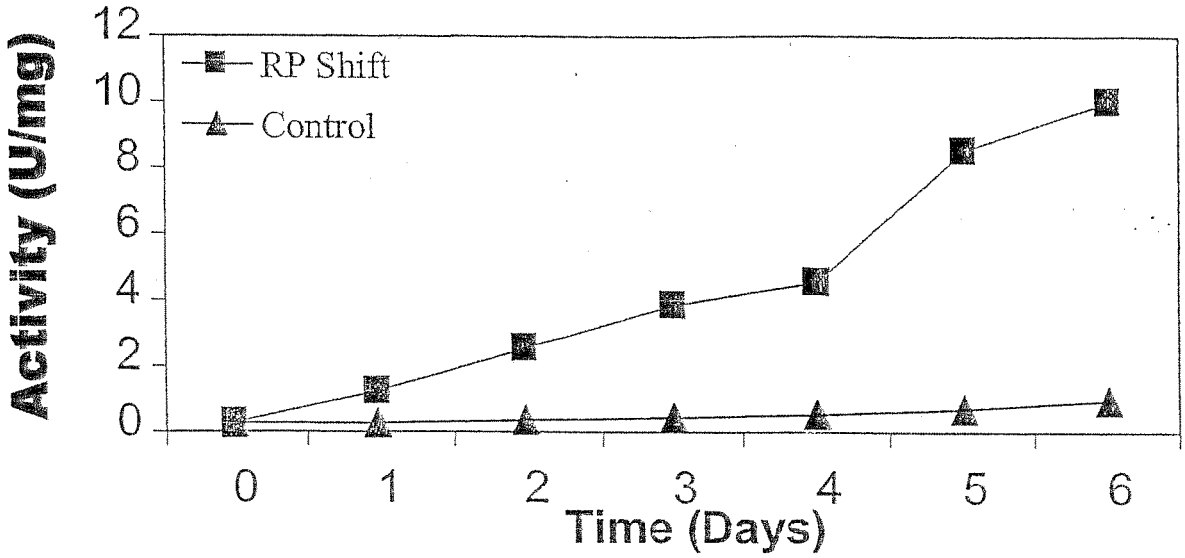


FIGURE 4. Enhanced production of secreted protein from cells blocked by premature senescence. Secreted alkaline phosphatase is measured by hydrolysis of p-nitrophenyl-phosphate substrate by the enzyme isolated from media removal in control or induced cultures. Cells containing senescence-triggering factors were not exposed (Control, red) or exposed (Doxycycline, green) to 2μM doxycycline for a period of a week.

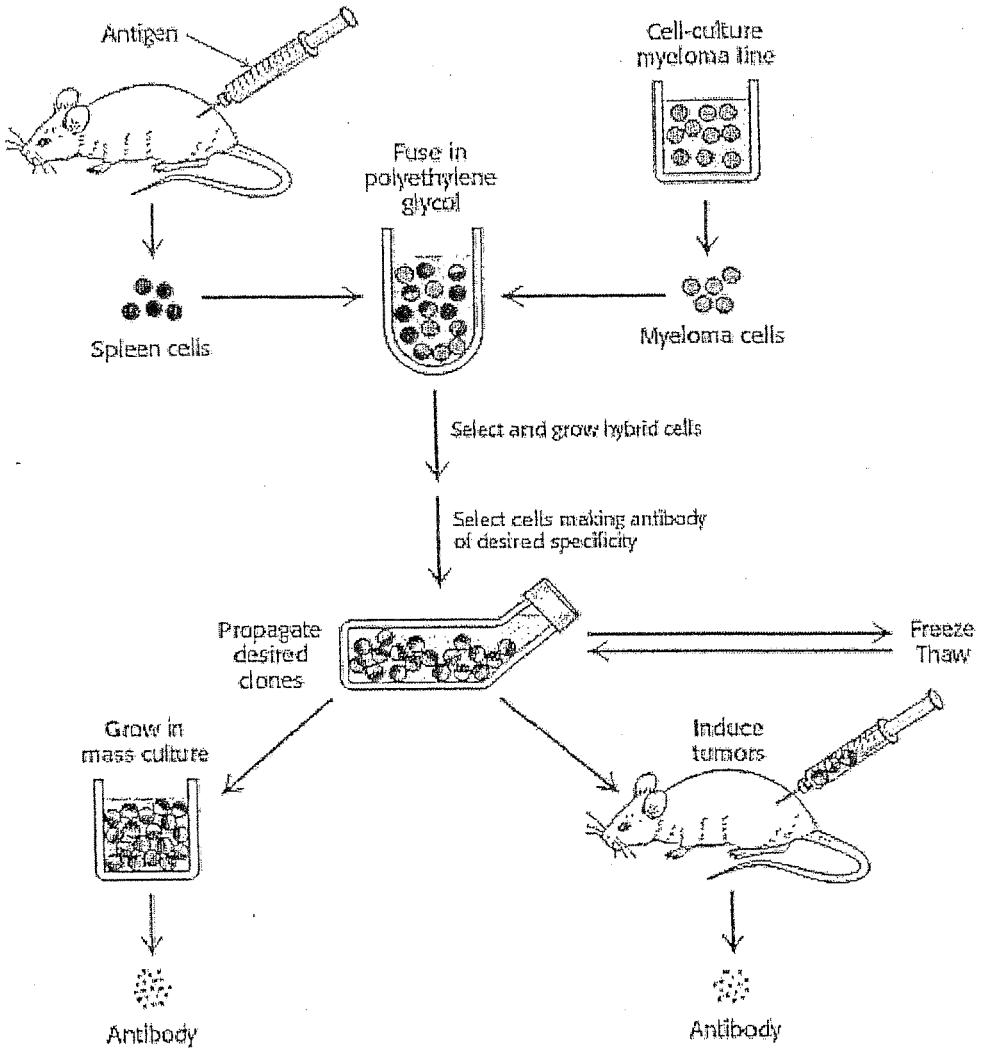


FIGURE 5. Scheme for production of monoclonal antibodies.

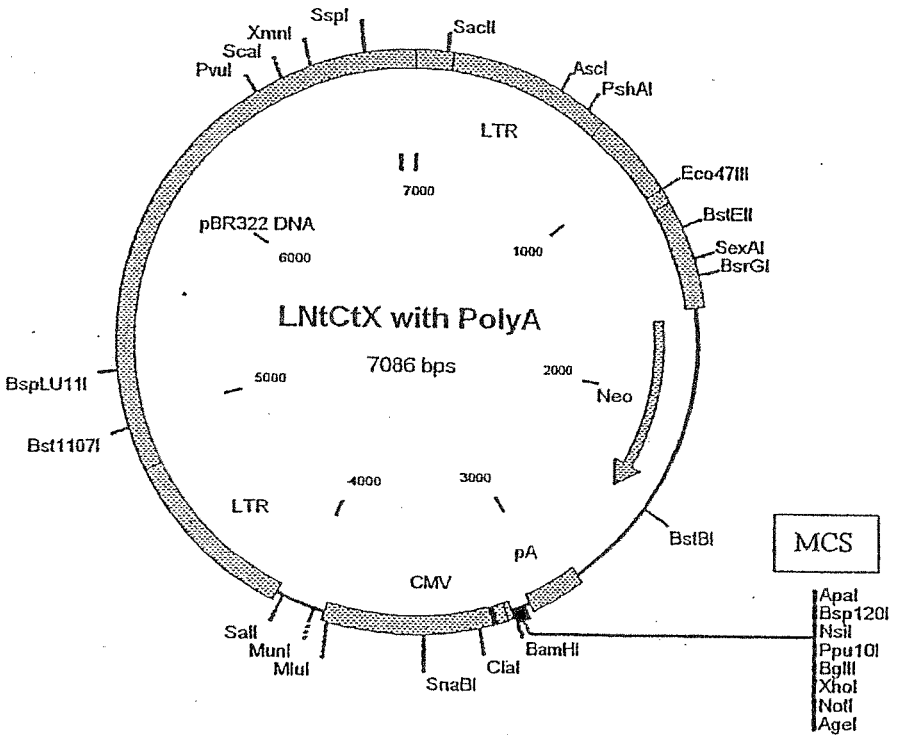

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FIG. 6

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