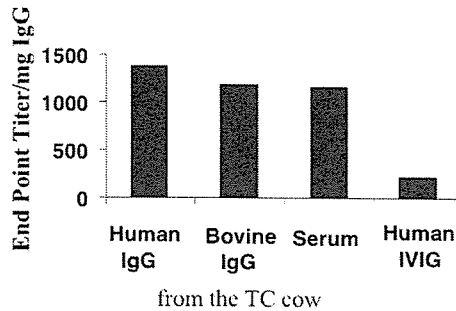


Antigen specific immune response in the TC cow



A TC cow was immunized with bio-terro related pathogen. Human IgG or Bovine IgG was purified from the serum. The antigen specific titer of the human IgG or bovine IgG was measured by ELISA coated with the antigen.

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Feasibility study using TC mouse (1)

Antisera against *Pseudomonas aeruginosa*

PBS (300 µl)	Human Plasma	TC-derived Serum (1/4 dil)	Human IgG (20 µg)	TC-derived Human IgG (20 µg)
5/5	5/5	<u>1/5</u>	5/5	<u>2/5</u>

The TC Mice were immunized by ip injection with about 100 mg per mouse of *Pseudomonas aeruginosa* (*Pa*) that had been fixed with 1% formalin for more than 24 h and washed with phosphate-buffered saline (PBS). Challenge involved inoculation of *Pa* (6.6×10^7 pfu/treated mice) was determined 4 days after *Pa* inoculation.

Ref: Cloning & Stem Cells, 4, 91-102, 2002.

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Feasibility study using TC mouse (2)

In vitro neutralization activity of antisera against Japanese Encephalitis Virus

	Titer (dilution)	Titer compensated ^a
Human plasma	29	<u>2.8</u>
TC-derived serum	971	<u>224.8</u>

^aThe titer values were compensated with the concentration of IgM and IgG contained in the serum samples.

The TC mice were immunized four times at 2-week intervals with Japanese encephalitis virus (JEV) vaccine prepared by the Chemo-Sero-Therapeutic Research Institute. Freund's adjuvant was included with the immunogen. Immobilized human or TC serum (56C for 30 min) diluted with buffer was mixed with the same volume of JEV (2,000PFU/ml) solution and incubated at 37C for 90 min, and then titrated using a plaque assay on vero cells. The neutralizing titer represents the dilution of the serum sample showing 50% plaque reduction compared to the control.

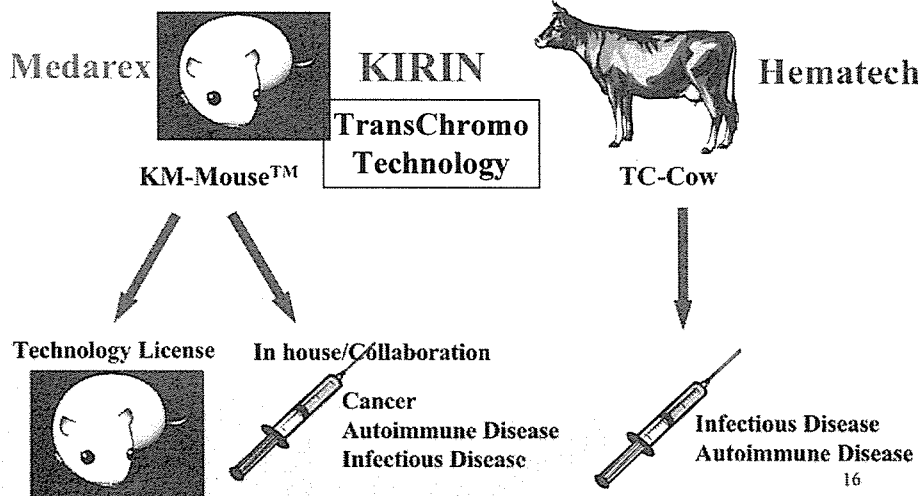
Ref: Cloning & Stem Cells, 4, 91-102, 2002.

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Human Antibody Business

Human monoclonal antibody

Human polyclonal antibody



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