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Anti-Mouse Sperm Antiserum

Fertility Inhibition *In Vitro* and Preliminary Antigen Identification

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Rabbit anti-mouse sperm (α MS) Fab fragments have been prepared, which are capable of inhibiting spermzona interaction (both binding and penetration) and sperm-egg fusion *in vitro*. In cumulus-intact eggs, α MS Fab did not inhibit zona penetration, but did inhibit sperm-egg fusion, implying that separate and distinguishable antigens are involved in these two fertilization events. Preliminary identification of the antigens recognized by α MS IgG, using a gel overlay technique, revealed four major antigens of 200 Kd, 55-63 Kd, 37 Kd, and 33 Kd, and three minor antigens of 110 Kd, 48 Kd, and 40 Kd.

Key words: *in vitro* fertilization, anti-sperm antibodies

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