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 $1-22 (10:36 \sim 10:48)$

人之甲促素貝他次單元抗體之製作

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The Preparation of Antibody to Human Thyrotropin- β Subunit

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A highly specific antibody to human thyrotropin, $oldsymbol{eta}$ -subunit (hTSH- eta) has been induced in rabbits. One hundred micrograms hTSH- eta (Calbiochem) were dissolved in 4 ml normal saline and then emulsified with 4 ml complete Freund's adjuvant before intradermal injections at multiple sites along the backs of 4 rabbits. Five repeated injections were given within 8 months following the primary injection. Blood samples were collected by an ear vein incision and the sera were examined for the presence of the antibody against hTSH- $oldsymbol{eta}$ was labeled with $^{125} ext{I}$ using the chloramine-T method and purified on Sephadex G-75 column. No cross-reaction with human luteinizing hormone, human growth hormone, hypothalamic hormones, and neurotransmitters was detected in this assay. Human plasma tested at various amounts ranged from 50 to 200 μ l produced a dose-response curve which was parallel to that obtained with hTSh-eta standard. Sensitivity of the RIA was 80 pg hTSH-eta or 0.5 μIU hTSH per assay tube. The recovery of exogenous hTSHfrom 100 μ l human plasma was 101.3 \pm 3.9% (n=9).