

Experimental evidence that endogenous TSH modulates microsomal antigen expression: clinical implications Evidencia experimental que el TSH endogeno modula la expresion del antigeno microsomal: implicancia clinica.

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The purpose of this work was to study if TSH has a role in TPO antigen expression in vivo. Using the cytotoxicity assay we measured TPO expression and correlated it with TSH serum levels in 3 groups of rats: control, hypothyroid and hypothyroid supplemented with thyroxine. For comparative purposes, in the cytotoxicity assay we used rat monoclonal antiTPO or human sera with high titles for antiTPO antibodies. Hypothyroid rats showed marked elevations of TSH serum levels and TPO antigen expression in their thyrocytes when compared to the control and supplemented group. A positive correlation between TPO antigen and TSH levels was observed ($r = 0.69$, $p < 0.001$). There was an excellent correlation between TPO results using rat monoclonal or human sera antibodies ($r = 0.94$ $p < 0.0001$). It is concluded that TSH modulates TPO antigen expression. These data are of clinical relevance considering that TSH modulates the expression of other antigens that can maintain the immune response and perpet