

Title (en)
ANTIBODIES AS T CELL RECEPTOR MIMICS, METHODS OF PRODUCTION AND USES THEREOF

Title (de)
ANTIKÖRPER ALS T-ZELL-REZEPTOR-MIMICS, HERSTELLUNGSVERFAHREN UND IHRE VERWENDUNGEN

Title (fr)
ANTICORPS UTILES EN TANT QU'ANALOGUES DE RÉCEPTEUR DES LYMPHOCYTES T, LEURS PROCÉDÉS DE PRODUCTION ET LEURS UTILISATIONS

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Abstract (en)

[origin: WO2007143104A2] The present invention relates to a methodology of producing antibodies that recognize peptides associated with a tumorigenic or disease state, wherein the peptides are displayed in the context of HLA molecules. These antibodies will mimic the specificity of a T cell receptor (TCR) but will have higher binding affinity such that the molecules may be used as therapeutic, diagnostic and research reagents. The method of producing a T-cell receptor mimic of the present invention includes identifying a peptide of interest, wherein the peptide of interest is capable of being presented by an MHC molecule. Then, an immunogen comprising at least one peptide/MHC complex is formed, wherein the peptide of the peptide/MHC complex is the peptide of interest. An effective amount of the immunogen is then administered to a host for eliciting an immune response, and serum collected from the host is assayed to determine if desired antibodies that recognize a three-dimensional presentation of the peptide in the binding groove of the MHC molecule are being produced. The desired antibodies can differentiate the peptide/MHC complex from the MHC molecule alone, the peptide alone, and a complex of MHC and irrelevant peptide. Finally, the desired antibodies are isolated.

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Citation (search report)

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