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T-Cell Epitope of MAGE-12 and Related Nucleic Acids, Vectors, Cells, Compositions, and Methods of Inducing an Immune Response to Cancer

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Technology description

Summary

The current invention embodies the identification of a T-cell epitope from the cancer-specific antigen MAGE-12. The MAGE family of genes encodes human tumor specific antigens (TSA), and various genes of this family are expressed by tumors of different histologies (melanoma, lung, colon, breast, laryngeal cancer, sarcomas, certain leukemias) and not by normal cells (except testis and placenta). The MAGE-12 peptide which is the subject of the current invention is a specific epitope within MAGE-12 (residues170-178) which is recognized by tumor infiltrating lymphocytes in the context of HLA-Cw0702 (a common HLA type in the Caucasian population). This T-cell epitope is advantageous in that it represents a novel tumor rejection antigen for use as a peptide vaccine against melanoma or other cancer types expressing MAGE-12 and may therefore be of great value for use in cancer immunotherapy.

Institution

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