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 UTILISÉS COMME MIMÉTIQUES DE RÉCEPTEURS DE LYMPHOCYTES T, LEURS MÉTHODES DE PRODUCTION ET LEURS APPLICATIONS

Publication

EP 1933864 A2 20080625 (EN)

Application

EP 06814164 A 20060907

Priority

- US 2006034547 W 20060907
- US 71462105 P 20050907
- US 75154205 P 20051219
- US 75273705 P 20051220
- US 83827606 P 20060817

Abstract (en)

[origin: WO2007030451A2] 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.

IPC 8 full level

A61B 5/055 (2006.01); **A61K 39/00** (2006.01); **C07H 21/02** (2006.01); **C07K 5/10** (2006.01); **C07K 16/00** (2006.01); **C07K 16/26** (2006.01); **C07K 16/28** (2006.01); **C07K 16/30** (2006.01); **C07K 16/32** (2006.01); **G01N 33/574** (2006.01)

CPC (source: EP)

C07K 14/70539 (2013.01); **C07K 16/00** (2013.01); **C07K 16/26** (2013.01); **C07K 16/2833** (2013.01); **C07K 16/30** (2013.01); **C07K 16/32** (2013.01); C07K 2317/32 (2013.01); C07K 2317/34 (2013.01); C07K 2317/73 (2013.01); C07K 2317/732 (2013.01); C07K 2317/734 (2013.01); C07K 2317/92 (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2007030451 A2 20070315; **WO 2007030451 A3 20090416**; AU 2006289683 A1 20070315; CA 2662798 A1 20070315; EP 1933864 A2 20080625; EP 1933864 A4 20091216; IL 190014 A0 20080807

DOCDB simple family (application)

US 2006034547 W 20060907; AU 2006289683 A 20060907; CA 2662798 A 20060907; EP 06814164 A 20060907; IL 19001408 A 20080306