

Title (en)
SILENSED ANTI-CD28 ANTIBODIES AND USE THEREOF

Title (de)
GEDÄMPFTE ANTI-CD28-ANTIKÖRPER UND IHRE VERWENDUNG

Title (fr)
ANTICORPS ANTI-CD28 SILENCIEUX ET LEUR UTILISATION

Publication
EP 1341553 A4 20040728 (EN)

Application
EP 01995504 A 20011214

Priority
• US 0147955 W 20011214
• US 25515500 P 20001214

Abstract (en)
[origin: WO0247721A1] The present invention provides anti-CD28 antibodies which are defective in mitogenic activity (silenced anti-CD28 antibodies), methods of producing, compositions containing the antibody and methods of immunosuppression, inducing T-cell tolerance and treating organ and/or tissue transplant rejections.

IPC 1-7
A61K 39/395; C07K 16/28; C12N 15/13; C12N 15/12; C12N 5/10; C12N 15/00

IPC 8 full level
A61K 39/00 (2006.01); **A61K 39/395** (2006.01); **A61K 45/00** (2006.01); **A61P 37/00** (2006.01); **A61P 37/06** (2006.01); **A61P 41/00** (2006.01); **C12N 15/09** (2006.01); **A61P 43/00** (2006.01); **C07K 16/28** (2006.01); **C07K 16/46** (2006.01); **C12N 1/15** (2006.01); **C12N 1/19** (2006.01); **C12N 1/21** (2006.01); **C12N 5/10** (2006.01); **C12P 21/08** (2006.01); **G01N 33/53** (2006.01)

CPC (source: EP KR)
A61P 37/00 (2018.01 - EP); **A61P 37/06** (2018.01 - EP); **A61P 41/00** (2018.01 - EP); **A61P 43/00** (2018.01 - EP); **C07K 16/28** (2013.01 - KR); **C07K 16/2818** (2013.01 - EP); **A61K 2039/505** (2013.01 - EP); **C07K 2317/24** (2013.01 - EP); **C07K 2317/54** (2013.01 - EP); **C07K 2317/55** (2013.01 - EP); **C07K 2317/56** (2013.01 - EP); **C07K 2319/00** (2013.01 - EP)

Citation (search report)
• [X] US 5580756 A 19961203 - LINSLEY PETER S [US], et al
• [XY] TAN P ET AL: "Humanization of an anti-CD28 antibody using germline human antibody sequences", BLOOD, W.B. SAUNDERS, PHILADELPHIA, VA, US, vol. 96, no. 11 PART 1, November 2000 (2000-11-01), pages 31A, XP002177441, ISSN: 0006-4971
• [XY] KRUMMERL M F ET AL: "SUPERANTIGEN RESPONSES AND CO-STIMULATION: CD28 AND CTLA-4 HAVE OPPOSING EFFECTS ON T CELL EXPANSION IN VITRO AND IN VIVO", INTERNATIONAL IMMUNOLOGY, OXFORD UNIVERSITY PRESS, GB, vol. 8, no. 4, 1996, pages 519 - 523, XP002908623, ISSN: 0953-8178
• [XY] LANIER L L ET AL: "CD80 (B7) AND CD86 (B70) PROVIDE SIMILAR COSTIMULATORY SIGNALS FOR T CELL PROLIFERATION, CYTOKINE PRODUCTION, AND GENERATION OF CTL", JOURNAL OF IMMUNOLOGY, THE WILLIAMS AND WILKINS CO. BALTIMORE, US, vol. 154, 1995, pages 97 - 105, XP002018932, ISSN: 0022-1767
• [YD] COLE M S ET AL: "Human IgG2 variants of chimeric anti-CD3 are nonmitogenic to T cells", JOURNAL OF IMMUNOLOGY, THE WILLIAMS AND WILKINS CO. BALTIMORE, US, vol. 159, no. 7, 1 October 1997 (1997-10-01), pages 3613 - 3621, XP002226664, ISSN: 0022-1767
• [YD] MAN SUNG CO: "CHIMERIC AND HUMANIZED ANTIBODIES WITH SPECIFICITY FOR THE CD33 ANTIGEN1", JOURNAL OF IMMUNOLOGY, THE WILLIAMS AND WILKINS CO. BALTIMORE, US, vol. 148, no. 4, 15 February 1992 (1992-02-15), pages 1149 - 1154, XP000368716, ISSN: 0022-1767
• [Y] ALEGRE M-L ET AL: "IMMUNOMODULATION OF TRANSPLANT REJECTION USING MONOCLONAL ANTIBODIES AND SOLUBLE RECEPTORS", DIGESTIVE DISEASES AND SCIENCES, PLENUM PUBLISHING CO, US, vol. 40, no. 1, January 1995 (1995-01-01), pages 58 - 64, XP002912150, ISSN: 0163-2116
• [Y] CANFIELD S M ET AL: "THE BINDING AFFINITY OF HUMAN IGG FOR ITS HIGH AFFINITY FC RECEPTOR IS DETERMINED BY MULTIPLE AMINO ACIDS IN THE C-H2 DOMAIN AND IS MODULATED BY THE HINGE REGION", JOURNAL OF EXPERIMENTAL MEDICINE, vol. 173, no. 6, 1991, pages 1483 - 1491, XP002278409, ISSN: 0022-1007
• See also references of WO 0247721A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0247721 A1 20020620; AR 031924 A1 20031008; AU 2002226086 B2 20050825; AU 2002226086 C1 20060309; AU 2608602 A 20020624; BR 0116686 A 20031230; CA 2432736 A1 20020620; CN 1272345 C 20060830; CN 1489473 A 20040414; CZ 20031909 A3 20031112; EP 1341553 A1 20030910; EP 1341553 A4 20040728; HU P0400697 A2 20040628; HU P0400697 A3 20070502; IL 156262 A0 20040104; JP 2004515243 A 20040527; KR 20040020866 A 20040309; MX PA03005327 A 20041203; NO 20032542 D0 20030605; NO 20032542 L 20030807; NZ 526569 A 20050729; PL 363239 A1 20041115; RU 2003121231 A 20050210; RU 2261723 C2 20051010; ZA 200305384 B 20041011

DOCDB simple family (application)
US 0147955 W 20011214; AR P010105828 A 20011214; AU 2002226086 A 20011214; AU 2608602 A 20011214; BR 0116686 A 20011214; CA 2432736 A 20011214; CN 01822636 A 20011214; CZ 20031909 A 20011214; EP 01995504 A 20011214; HU P0400697 A 20011214; IL 15626201 A 20011214; JP 2002549291 A 20011214; KR 20037007798 A 20030611; MX PA03005327 A 20011214; NO 20032542 A 20030605; NZ 52656901 A 20011214; PL 36323901 A 20011214; RU 2003121231 A 20011214; ZA 200305384 A 20030711