



(51) International Patent Classification:

C12P 21/08 (2006.01) G01N 33/554 (2006.01)
A61K 39/40 (2006.01)

(21) International Application Number:

PCT/US2013/068624

(22) International Filing Date:

6 November 2013 (06.11.2013)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/723,137 6 November 2012 (06.11.2012) US
61/782,405 14 March 2013 (14.03.2013) US

(71) Applicant: MEDIMMUNE, LLC [US/US]; One MedImmune Way, Gaithersburg, MD 20878 (US).

(72) Inventors: SELLMAN, Bret; c/o MedImmune, LLC, One MedImmune Way, Gaithersburg, MD 20878 (US). TKACZYK, Christine; c/o MedImmune, LLC, One MedImmune Way, Gaithersburg, MD 20878 (US). CHOWDHURY, Partha, S.; c/o MedImmune, LLC, One MedImmune Way, Gaithersburg, MD 20878 (US). HUA, Lei; c/o MedImmune, LLC, One MedImmune Way, Gaithersburg, MD 20878 (US). PAVLIK, Peter; c/o MedImmune, LLC, One MedImmune Way, Gaithersburg, MD 20878 (US). BUONPANE, Rebecca; c/o MedImmune, LLC, One MedImmune Way, Gaithersburg, MD 20878 (US). CHANG, Chew-Shun; c/o MedImmune, LLC, One MedImmune Way, Gaithersburg, MD 20878 (US).

(74) Agents: MUKHERJEE, Mita et al.; MedImmune, LLC, One MedImmune Way, Gaithersburg, MD 20878 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

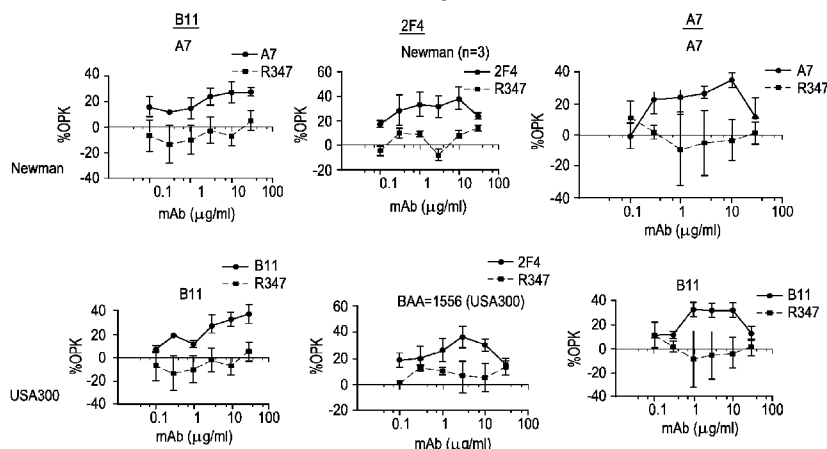
- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:

10 July 2014

(54) Title: ANTIBODIES TO S. AUREUS SURFACE DETERMINANTS

FIG. 1



(57) Abstract: Antibodies and antigen binding fragments directed against Staphylococcus aureus (S. aureus) surface determinant antigens and bi-specific antibodies comprising the antibodies or binding fragments that also bind to secreted toxins are disclosed. Methods of detecting, diagnosing and treating S. aureus infection using the antibodies and antigen binding fragments are also provided. Further disclosed are heavy chain variable region (VH) and light chain variable region (VL) region sequences of the antibodies.