

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
05 August 2021 (05.08.2021)



(10) International Publication Number
WO 2021/152186 A3

- (51) **International Patent Classification:**
C07K 16/28 (2006.01) *A61P 35/00* (2006.01)
- (21) **International Application Number:**
PCT/EP2021/067504
- (22) **International Filing Date:**
25 June 2021 (25.06.2021)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
- | | | |
|------------|-------------------------------|----|
| 62/705,434 | 26 June 2020 (26.06.2020) | US |
| 62/705,608 | 07 July 2020 (07.07.2020) | US |
| 20205426.8 | 03 November 2020 (03.11.2020) | EP |

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(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, DJ, DK, DM, DO,
DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,
HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN,
KP, KR, KW, KZ, LA, LC, LK, LR, LS, 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, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, 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, ST, 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).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))

(54) **Title:** CCR8 ANTIBODIES FOR THERAPEUTIC APPLICATIONS

(57) **Abstract:** The present invention relates to tools and methods for the generation of antibodies which specifically bind chemokine receptors, such as CC or CXC chemokine receptors. Provided are isolated sulfated polypeptides and conjugates thereof, which can be used for example as antigens or for off target panning to facilitate the generation of anti-human, anti-cynomolgus, and/or anti-mouse chemokine receptor antibodies, e.g. for the generation of antibodies with fully human CDRs and/or other favorable properties for therapeutic use. The present invention furthermore relates to antibodies and conjugates thereof which can be obtained by applying the aforementioned tools and methods. Provided are antibodies specifically binding to human, cynomolgus and/or murine CCR8 with favorable properties for therapeutic use, such as cross-reactive antibodies, fully human antibodies, low internalizing (including non-internalizing) antibodies, and antibodies efficiently inducing ADCC and/or ADCP in Treg cells. Also provided are medical uses of the disclosed antibodies or conjugates and/or treatment methods comprising the administration of these antibodies to a patient or subject, either alone or in combination. Biomarkers, stratification methods and diagnostic methods are finally provided to predict or evaluate responsiveness to anti-CCR8 antibody monotherapy or combination therapy. The invention furthermore provides tools and methods for producing the foregoing antibodies, pharmaceutical compositions, diagnostic uses of the antibodies, and kits with instructions for use.

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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))*
- *upon request of the applicant, before the expiration of the time limit referred to in Article 21(2)(a)*
- *with sequence listing part of description (Rule 5.2(a))*

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

02 December 2021 (02.12.2021)