

## Title (en)

ISOLATED MONOCYTE POPULATIONS AND RELATED THERAPEUTIC APPLICATIONS

## Title (de)

ISOLIERTE MONOZYTENPOPULATIONEN UND ENTSPRECHENDE THERAPEUTISCHE ANWENDUNGEN

## Title (fr)

POPULATIONS MONOCYTAIRES ISOLÉES ET APPLICATIONS THÉRAPEUTIQUES ASSOCIÉES

## Publication

**EP 2398900 A4 20120822 (EN)**

## Application

**EP 10744061 A 20100219**

## Priority

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- US 28324409 P 20091130

## Abstract (en)

[origin: WO2010096177A1] The invention provides methods of using isolated monocyte populations to treat subjects suffering from various ocular vascular disease or ocular degenerative disorders. The present invention also provides novel methods for isolating substantially pure monocyte populations. The methods involve extracting a blood sample or a bone marrow sample from a subject, debulking red blood cells from the sample, and then separating remaining red blood cells and other cell types in the sample from monocytes. Instead of using any selection or labeling agents, the red blood cells and other cell types are separated from monocytes based on their size, granularity or density. The isolated monocytes can be further activated in vitro or ex vivo prior to being administered to a subject. Isolated cell populations containing substantially pure CD14+/CD33+ monocytes are also provided in the invention.

## IPC 8 full level

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## Citation (search report)

- [XY] WO 2008001380 A2 20080103 - YEDA RES & DEV [IL], et al
- [Y] WO 2006031467 A2 20060323 - SCRIPPS RESEARCH INST [US], et al
- [Y] HAZIOT A ET AL: "SOLUBLE CD14 INHIBITS THE ACTIVATION OF MONOCYTES INDUCED BY LPS", JOURNAL OF CELLULAR BIOCHEMISTRY. SUPPLEMENT, A.R. LISS, NEW YORK, NY, US, 21 February 1992 (1992-02-21), pages 163, XP000775642, ISSN: 0733-1959
- [Y] SUMEGI ET AL: "Glucocorticosteroid therapy decreases CD14-expression and CD14-mediated LPS-binding and activation of monocytes in patients suffering from systemic lupus erythematosus", CLINICAL IMMUNOLOGY, ACADEMIC PRESS, US, vol. 117, no. 3, 1 December 2005 (2005-12-01), pages 271 - 279, XP005226349, ISSN: 1521-6616, DOI: 10.1016/J.CLIM.2005.09.002
- [A] AGUILAR EDITH ET AL: "OCULAR MODELS OF ANGIOGENESIS", METHODS IN ENZYMOLOGY ELSEVIER ACADEMIC PRESS INC, 525 B STREET, SUITE 1900, SAN DIEGO, CA 92101-4495 USA SERIES : METHODS IN ENZYMOLOGY (ISSN 0076-6879(PRINT)), 2008, pages 115 - 158, XP009160775
- See also references of WO 2010096177A1

## Designated contracting state (EPC)

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## DOCDB simple family (application)

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