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Information about the contributions of each person named as having participated in the study

1) Guarantor(s), i.e., person(s) who is (are) responsible for the integrity of the work as a whole:
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2) Authors who participated in the **conception of the study**: JAFFREDO Thierry, SOUYRI MIchèle and DURAND Charles. **GAUTIER Rodolphe originally noticed that CD 105 was expressed by the aortic hematopoietic clusters.**

3) **Design & Methods**. The following authors were responsible for specific investigations
• Thierry Jaffredo was responsible for the design of the whole study. He was more particularly involved in aspects regarding immunodetection and flow cytometry.
• Michèle Souyri, Rodolphe Gautier were responsible for the fine tuned characterisation of the CD105 positive population using flow cytometry.
• Michèle Souyri was responsible for the statistical analysis
• Charles Durand was responsible for the fine tuned isolation of CD105int and CD105 high population, clonal cultures and RT-PCR analysis and statistical analysis.
• Marion Roques, Michèle Souyri and Laurence Petit-Cocault were responsible for the CAFC long-term cultures.
• Dominique Dunon provided antibodies critical for the flow cytometry analysis and helped analyzing the flow cytometry data
• Laurent Yvernogeau contributed to technical help for microdissections critical for establishment of the results.

4) **Results**. The following authors were responsible for specific portions of the results, including figures and tables (please indicate the person responsible for each figure and each table):
• Marion Roques was responsible for the production of mouse immunohistological figures (Fig1A to G) and supplementary Figure 1.
• Pierre-Yves Canto was responsible for the production of the human immunohistological images (Fig1H).
• Michèle Souyri and Rodolphe Gautier were responsible for the flow cytometry analysis depicted in Fig2.
• Charles Durand was responsible for the clonal cultures and the PCR reported in Fig. 3
• Marion Roques was responsible for the CAFC long-term cultures reported in Fig 3C.

• Charles Durand was responsible for the flow cytometry analysis reported in Supplementary Fig 2.
• Charles Durand was responsible for the Image Stream analysis of Supplementary Fig. 3.
• Michèle Souyri and Laurence Petit-Cocault were responsible for testing the lymphoid potential of Supplementary Fig 4.

5) **Writing the manuscript**. The following authors were responsible for writing the manuscript:
• Thierry Jaffredo: writing, revision and final approval of the manuscript
• Michèle Souyri: writing and revision of the manuscript
• Charles Durand: writing and revision of the manuscript

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