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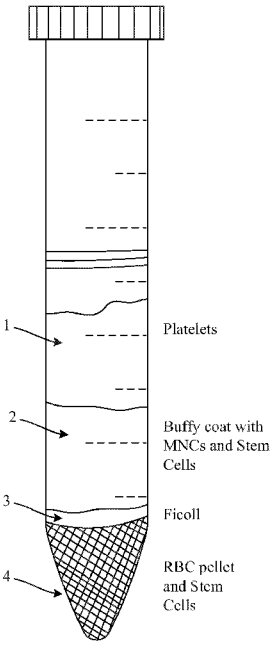
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(54) **Title**: COMPOSITIONS AND METHODS TO INHIBIT STEM CELL AND PROGENITOR CELL BINDING TO LYMPHOID TISSUE AND FOR REGENERATING GERMINAL CENTERS IN LYMPHATIC TISSUES



Layers resulting from gradient centrifugation of whole blood

Fig. 1

(57) **Abstract**: The present invention relates to compositions and methods of inhibiting stem cell binding to organs and tissues, including the blocking of stem cell binding to germinal centers present in lymph tissue. Disclosed are compositions and methods for regenerating germinal centers in lymphatic tissue. Included in the compositions are adjuvants, agonists to CD40, CD28 and the IL-21 receptor, and antagonist to CD20.

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