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(54) **Method for a fully automated monoclonal antibody-based extended differential**

(57) A composition for use in the differentiation or enumeration of hematologic cell types comprises the following components:

A. a first antibody labelled with a first fluorochrome having a first emission spectrum, said first antibody that binds to an antigenic determinant that is differentially expressed on populations of leukocytes and non-leukocytes in a sample;

B. an additional antibody labelled with an additional fluorochrome, wherein said additional antibody binds to an antigenic determinant that is differentially expressed on populations of mature and immature granulocytes or myeloid cells, and wherein said additional fluorochrome has a peak emission spectrum that overlaps said first peak emission spectrum; and

C. a nucleic acid dye which has an emission spectrum that overlaps with at least one of said first emission spectra or said additional emission spectra but wherein the peak emission spectrum of the dye does not overlap with the peak emission spectra of the first and additional fluorochromes.

Corresponding methods and kits are also described.

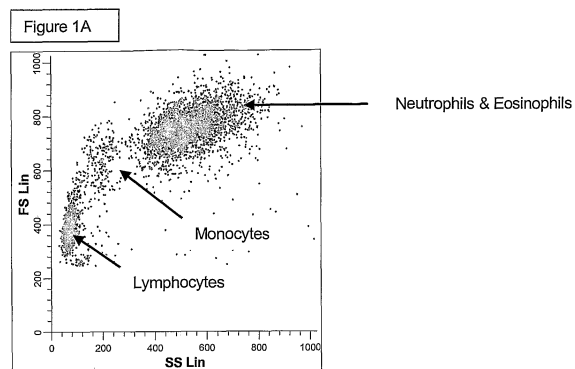


Figure 1B

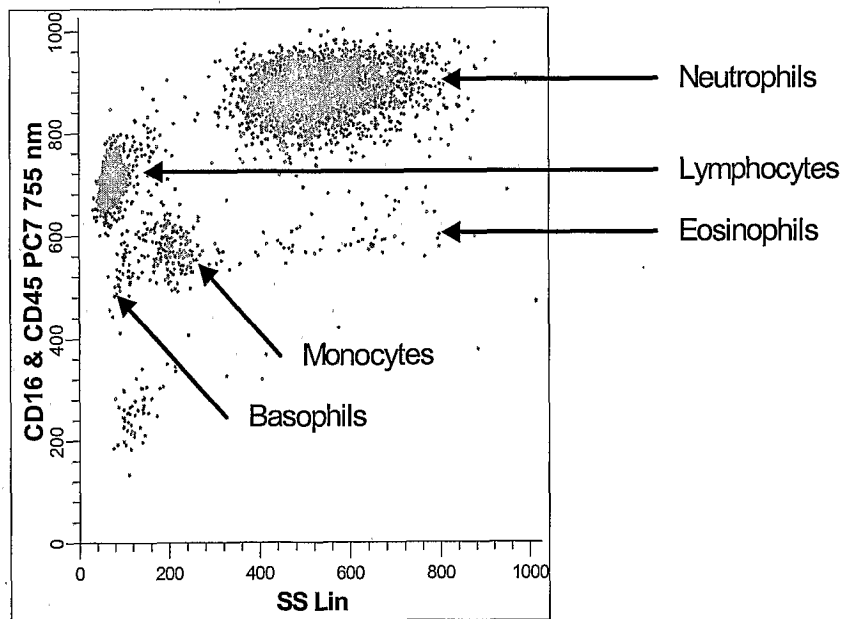
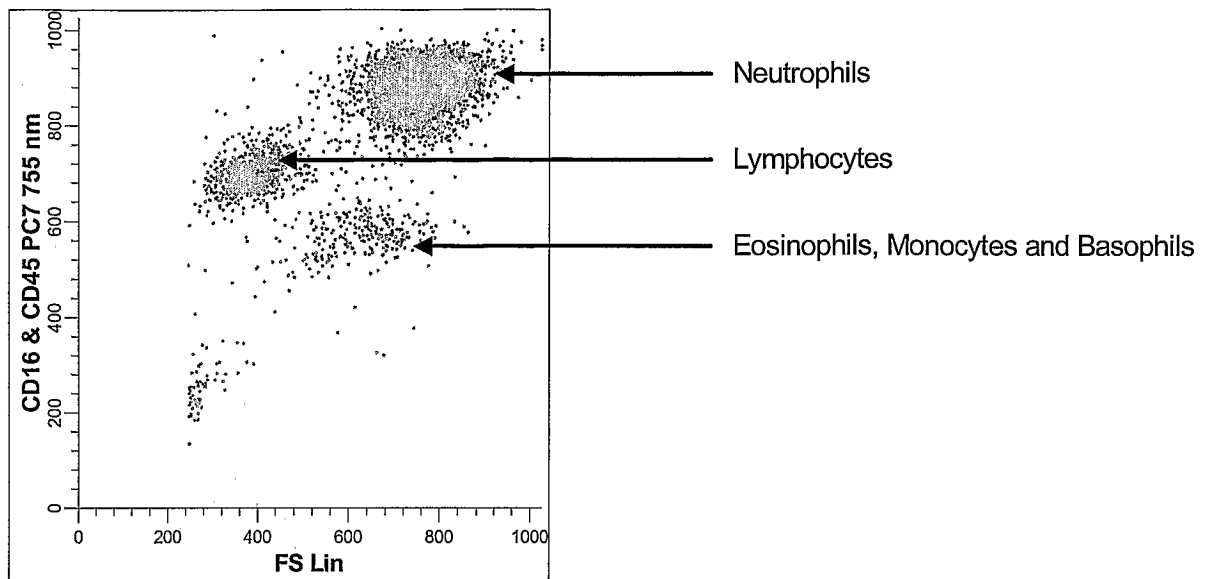


Figure 1C





EUROPEAN SEARCH REPORT

Application Number
EP 10 18 3912

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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 24 November 2010	Examiner Boiangiu, Clara
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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EUROPEAN SEARCH REPORT

Application Number
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Place of search		Date of completion of the search		Examiner
The Hague		24 November 2010	Boiangiu, Clara	
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document				

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专利名称(译)	基于全自动单克隆抗体的扩展差异的方法		
公开(公告)号	EP2267453A3	公开(公告)日	2011-01-05
申请号	EP2010183912	申请日	2005-05-18
[标]申请(专利权)人(译)	贝克曼考尔特公司		
申请(专利权)人(译)	BECKMAN COULTER , INC.		
当前申请(专利权)人(译)	BECKMAN COULTER , INC.		
[标]发明人	PAUL RONALD WYATT JAMES CARRILLO BARBARA RUBIO OILDA CAREAGA DIANA LOPEZ LIDICE		
发明人	PAUL, RONALD WYATT, JAMES CARRILLO, BARBARA RUBIO, OILDA CAREAGA, DIANA LOPEZ, LIDICE		
IPC分类号	G01N33/569 G01N33/533 G01N33/50 G01N33/58 G01N33/53		
CPC分类号	G01N33/56966 G01N15/1459 G01N33/56972 G01N2015/1006 G01N2015/1402 Y10T436/101666 Y10T436/107497 Y10T436/13 Y10T436/25125		
优先权	11/130492 2005-05-17 US 60/573167 2004-05-21 US		
其他公开文献	EP2267453B1 EP2267453A2		
外部链接	Espacenet		

摘要(译)

用于血液细胞类型的分化或计数的组合物包含以下组分：A。用具有第一发射光谱的第一荧光染料标记的第一抗体，所述第一抗体结合在群体上差异表达的抗原决定簇。样本中的白细胞和非白细胞；B.用另外的荧光染料标记的另外的抗体，其中所述另外的抗体结合在成熟和未成熟的粒细胞或骨髓细胞群上差异表达的抗原决定簇，并且其中所述另外的荧光染料具有与所述第一峰重叠的峰发射光谱。发射光谱；C.一种核酸染料，其发射光谱与所述第一发射光谱或所述附加发射光谱中的至少一个重叠，但其中染料的峰值发射光谱不与第一和另外的峰值发射光谱重叠。荧光染料。还描述了相应的方法和试剂盒。

