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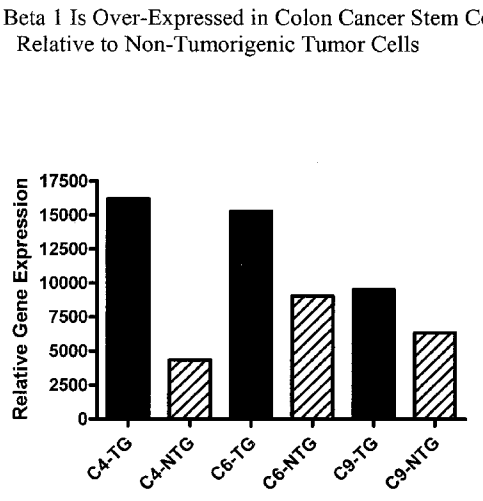
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(54) Title: COMPOSITIONS AND METHODS FOR TREATING AND DIAGNOSING CANCER

Figure 1



(57) Abstract: The present invention relates to compositions and methods for characterizing, diagnosing, and treating cancer. In particular, the present invention identifies integrin beta (1) as a cancer stem cell marker. In certain embodiments, the present invention provides a method of treating cancer comprising administering a therapeutically effective amount of an integrin beta (1) antibody. In certain embodiments, the integrin beta (1) antibody reduces the frequency of cancer stem cells in a solid tumor.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 08/08499

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - A61K 39/395
USPC - 424/138.1
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
USPC -424/138.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC -424/ 155.1, 174.1; 530/387.1

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PubWEST(USPT,PGPB,EPAB,JPAB); PubMed; Google Scholar
Search Terms Used: AIIB2, treat,inhibit, decrease,cure,cancer,tumor,integrin, monoclonal, chimeric,IgG2,IgKappa,light chain

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 2007/0010469 A1 (Chan et al.) 11 January 2007 (11.01.2007) entire document, especially para [0014],[0018], [0129], [0137],[0196], [0517],	1-7, 10, 11, 14-16, 18 --- 17, 19-28
Y	"Identification of a regulatory region of integrin beta 1 subunit using activating and inhibiting antibodies." (Takada et al.) 15 August 1993 (15.08.1993) J Biol Chem. Vol. 268 No. 23 Pg. 17597-601.	17, 19-28
A	WO 2001/87981 A2 (Tsuji et al.) 22November 2001(22.11.2001) entire document, especially Claim 30; Page 264-266	8,9, 12 ,13

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"&" document member of the same patent family

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