

Title (en)
TUMOR-SPECIFIC ANTIBODY FRAGMENTS, FUSION PROTEINS, AND USES THEREOF

Title (de)
TUMORSPEZIFISCHE ANTIKÖRPERFRAGMENTE, FUSIONSPROTEINE, UND DEREN VERWENDUNGEN

Title (fr)
FRAGMENTS D'ANTICORPS A SPECIFICITE TUMORALE, PROTEINES DE FUSION, ET LEURS UTILISATIONS

Publication
EP 0796334 A1 19970924 (EN)

Application
EP 95939599 A 19951026

Priority

- US 9513811 W 19951026
- US 33139694 A 19941028
- US 33139794 A 19941028
- US 33139894 A 19941028

Abstract (en)
[origin: WO9613594A1] This invention provides for recombinant single chain antibodies capable of specifically binding to a Lewis<Y>-related carbohydrate antigen and fusion proteins comprising these antibodies. More particularly, the invention provides for single chain Fv (ScFv) regions of the monoclonal antibodies B1, B3, and B5, humanized single chain Fv regions of B1, B3, and B5, and fusion proteins comprising these scFv regions. The invention also provides for a number of stabilizing mutations of the Lewis<Y>-binding monoclonal antibody B3. In addition, the invention provides for methods of detecting cells bearing a Lewis<Y> antigen in a patient and for methods of killing or inhibiting the growth of cells bearing a Lewis<Y> antigen in a patient. The invention also provides for a method of improving the binding affinity of antibodies lacking a serine at position 95 of the VH region that involves mutating position 95 to a serine.

IPC 1-7
C12N 15/62; C12N 15/13; C07K 19/00; C07K 16/30; A61K 47/42; A61K 39/395; G01N 33/577; G01N 33/574; C07K 16/00; C07K 16/46

IPC 8 full level
C07K 16/18 (2006.01); **C07K 16/30** (2006.01); **C07K 16/34** (2006.01); **C07K 19/00** (2006.01); **A61K 38/00** (2006.01)

CPC (source: EP)
C07K 16/18 (2013.01); **C07K 16/30** (2013.01); **C07K 16/34** (2013.01); **C07K 19/00** (2013.01); **A61K 38/00** (2013.01); **C07K 2317/24** (2013.01); **C07K 2317/56** (2013.01); **C07K 2317/622** (2013.01); **C07K 2319/00** (2013.01)

Citation (search report)
See references of WO 9613594A1

Cited by
LT5353B

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9613594 A1 19960509; WO 9613594 A8 20000406; AU 4135596 A 19960523; AU 717611 B2 20000330; CA 2203236 A1 19960509; EP 0796334 A1 19970924

DOCDB simple family (application)
US 9513811 W 19951026; AU 4135596 A 19951026; CA 2203236 A 19951026; EP 95939599 A 19951026