

Title (en)
LATS KNOCK-OUT ANIMAL MODELS AND THEIR USES

Title (de)
LATS-"KNOCK-OUT" TIERMODELLE UND IHRE VERWENDUNG

Title (fr)
MODELES ANIMAUX AVEC ELIMINATION DE GENES LATS ET LEURS UTILISATIONS

Publication
EP 1105160 A4 20020206 (EN)

Application
EP 99945126 A 19990818

Priority

- US 9919068 W 19990818
- US 9699698 P 19980818
- US 9699798 P 19980818

Abstract (en)
[origin: WO0010602A1] A recombinant non-human animal having an inactivated lats gene is described. A lats knock-out mouse is exemplified. Because mice disrupted for the lats gene develop a variety of tumors, are susceptible to induction of skin tumors by exposure to carcinogens, and exhibit pituitary dysfunction, they have utility in screening for compounds effective to treat or prevent cancer or pituitary disorders. Compounds can be screened for activity in treating or preventing skin cancer in recombinant non-human animals which have an inactivated and in which skin tumors have been induced by exposure to carcinogens. Methods for treatment of cancers refractory to treatment with chemotherapy or radiation therapy by using a therapeutic that promotes lats function are also described. Additional methods are described for the treatment or prevention of diseases and disorders associated with aberrant levels of cdc2 activity with a therapeutic that either promotes, inhibits or antagonizes lats function.

IPC 1-7
A61K 39/395; C07H 21/04; A01N 61/00; A01N 37/18; A01N 43/04; C12N 5/00; C12N 15/00

IPC 8 full level
A61P 35/00 (2006.01); **C07K 14/47** (2006.01); **C12N 15/12** (2006.01); **C12N 15/85** (2006.01); **A61K 38/00** (2006.01)

CPC (source: EP)
A01K 67/0276 (2013.01); **A61P 35/00** (2017.12); **C07K 14/4703** (2013.01); **C12N 15/8509** (2013.01); **A01K 2217/075** (2013.01); **A01K 2227/105** (2013.01); **A01K 2267/0331** (2013.01); **A61K 38/00** (2013.01)

Citation (search report)

- [A] EP 0169672 B1 19920513
- [T] YANG XIAOLONG ET AL: "Human homologue of Drosophila lats, LATS1, negatively regulate growth by inducing G2/M arrest or apoptosis.", ONCOGENE, vol. 20, no. 45, 2001, pages 6516 - 6523, XP001034046, ISSN: 0950-9232
- See references of WO 0010602A1

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

DOCDB simple family (publication)
WO 0010602 A1 20000302; **WO 0010602 A9 20000921**; AU 5781099 A 20000314; CA 2340456 A1 20000302; EP 1105160 A1 20010613; EP 1105160 A4 20020206

DOCDB simple family (application)
US 9919068 W 19990818; AU 5781099 A 19990818; CA 2340456 A 19990818; EP 99945126 A 19990818