



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 1 175 909 A8**

(12) **CORRECTED EUROPEAN PATENT APPLICATION**

Note: Bibliography reflects the latest situation

(15) Correction information:
Corrected version no 1 (W1 A2)
INID code(s) 22

(51) Int Cl.7: **A61K 38/17**, A61K 48/00,
C07K 14/435, C12N 15/12

(48) Corrigendum issued on:
21.08.2002 Bulletin 2002/34

(43) Date of publication:
30.01.2002 Bulletin 2002/05

(21) Application number: **01120663.8**

(22) Date of filing: **30.09.1993**

(84) Designated Contracting States:
**AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL
PT SE**

(30) Priority: **30.09.1992 US 955012**
30.09.1992 US 83590

(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
93923752.5 / 0 662 827

(71) Applicant: **YALE UNIVERSITY**
New Haven CT 06520 (US)

(72) Inventors:
• **Artavanis-Tsakonas, Spyridon, Dr.**
Brookline, MA 02445 (US)

- **Fehon, Richard Grant**
Durham, NC 27705 (US)
- **Zagouras, Panayiotis**
Old Saybrook, CT 06475 (US)
- **Blaumueller, Christine Marie, Dr.**
69117 Heidelberg (DE)

(74) Representative: **Silveston, Judith et al**
ABEL & IMRAY
20 Red Lion Street
London, WC1R 4PQ (GB)

Remarks:

This application was filed on 31 - 08 - 2001 as a
divisional application to the application mentioned
under INID code 62.

(54) **Therapeutic methods and compositions based on serrate proteins and nucleic acids**

(57) The present invention relates to pharmaceuti-
cal compositions comprising a fragment of Serrate pro-
tein or a derivative or analog of said fragment, or com-
prising a derivative or analog of a Serrate protein, or
comprising a protein comprising such a fragment, deriv-
ative or analog, the fragments, derivatives, analogs and
proteins being characterized by the ability *in vitro*, when
expressed on the surface of a first cell, to bind to a Notch
protein expressed on the surface of a second cell. The
invention also relates to chimeric proteins comprising

said Serrate fragments joined via a peptide bond to a
protein sequence of a protein different from the Serrate
protein, and to nucleic acids encoding said fragments of
a Serrate protein, and encoding said chimeric proteins.
According to the invention, said fragments, derivatives,
analogs, and proteins, said chimeric proteins and said
nucleic acids may be used as a medicament, for exam-
ple, in treating or preventing malignancy in a subject.

EP 1 175 909 A8