

Title (en)

MARKERS OF BLOOD BARRIER PERMEABILITY AND METHODS OF USING SAME

Title (de)

MARKER FÜR DIE PERMEABILITÄT DER BLUTBARRIERE UND VERFAHREN ZU IHRER VERWENDUNG

Title (fr)

MARQUEURS DE LA PERMEABILITE DE LA BARRIERE SANGUINE ET LEURS METHODES D'UTILISATION

Publication

**EP 1551450 A1 20050713 (EN)**

Application

**EP 03816193 A 20030612**

Priority

- US 0318780 W 20030612
- US 38837102 P 20020612

Abstract (en)

[origin: WO2004078204A1] The present invention relates generally to a peripheral marker or markers of blood barrier integrity and methods of using same in the diagnosis, prognosis, and treatment of a variety of diseases. The peripheral marker(s) of the present invention are particularly useful in the differential diagnosis of diseased states. The preferred embodiments of the present invention relate to methods, compositions, kits and assays useful in determining the integrity or permeability of either a blood CSF barrier or a blood brain barrier. The various embodiments of the present invention can be used to identify subjects at risk for developing a disease associated with increased permeability of the blood brain barrier, as well as to provide insight on the ability of an agent or agents to pass through the blood brain barrier. Embodiments of the present invention preferably involve the use of subject derived blood samples to determine the occurrence and level of circulating proteins indicative of blood brain barrier permeability or integrity. The embodiments of the present invention also provides screening methods for diagnosis, prognosis, susceptibility, or degree of permeability of penetration of the blood brain barrier by detecting the presence of serum Transthyretin either directly or through the use of antibodies.

IPC 1-7

**A61K 39/00**; **A61K 39/395**; **A61K 47/00**; **G01N 33/00**; **G01N 33/15**; **G01N 33/48**; **G01N 33/49**

IPC 8 full level

**C07K 16/18** (2006.01); **G01N 33/68** (2006.01)

CPC (source: EP)

**C07K 16/18** (2013.01); **G01N 33/6896** (2013.01); **A61K 2039/505** (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2004078204 A1 20040916**; AU 2003243563 A1 20040928; EP 1551450 A1 20050713; EP 1551450 A4 20051123

DOCDB simple family (application)

**US 0318780 W 20030612**; AU 2003243563 A 20030612; EP 03816193 A 20030612