

Title (en)
REAGENTS FOR THE DETECTION OF PROTEIN PHOSPHORYLATION IN LEUKEMIA SIGNALING PATHWAYS

Title (de)
REAGENTIEN ZUM NACHWEIS DER PROTEINPHOSPHORYLIERUNG IN LEUKÄMIE-SIGNALWEGEN

Title (fr)
RÉACTIFS POUR LA DÉTECTION DE LA PHOSPHORYLATION DES PROTÉINES DANS DES PROCESSUS DE SIGNALISATION DE LA LEUCÉMIE

Publication
EP 1929305 A2 20080611 (EN)

Application
EP 06802749 A 20060830

Priority
• US 2006034126 W 20060830
• US 71277605 P 20050831

Abstract (en)
[origin: WO2007027957A2] The invention discloses nearly 480 novel phosphorylation sites identified in signal transduction proteins and pathways underlying human Leukemia, and provides phosphorylation-site specific antibodies and heavy-isotope labeled peptides (AQUA peptides) for the selective detection and quantification of these phosphorylated sites/proteins, as well as methods of using the reagents for such purpose. Among the phosphorylation sites identified are sites occurring in the following protein types: adaptor/scaffold proteins, acetyltransferases, actin binding proteins, adhesion proteins, apoptosis proteins, calcium-binding proteins, cell cycle regulation proteins, cell surface proteins, channel proteins, chaperone proteins, contractile proteins, cytokine proteins, cytoskeletal proteins, G protein regulators and GTPase activating proteins, guanine nucleotide exchange factors, helicase proteins, immunoglobulin superfamily proteins, inhibitor proteins, protein kinases, lipid kinases, ligases, lipid binding proteins, methyltransferases, motor proteins, oxidoreductases, phosphatases, phosphodiesterases, phospholipases, proteases, receptor proteins, trascription factors, transferases, translation/transporter proteins, and ubiquitin conjugating system proteins.

IPC 8 full level
C07K 16/00 (2006.01); **G01N 33/53** (2006.01); **G01N 33/573** (2006.01)

CPC (source: EP)
C07B 59/008 (2013.01); **C07K 16/3061** (2013.01); **C07K 16/44** (2013.01); **G01N 33/57426** (2013.01); **G01N 33/6803** (2013.01); **G01N 33/6842** (2013.01); **G01N 2333/9121** (2013.01)

Citation (search report)
See references of WO 2007027957A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
WO 2007027957 A2 20070308; **WO 2007027957 A3 20090129**; **WO 2007027957 A9 20070531**; EP 1929305 A2 20080611

DOCDB simple family (application)
US 2006034126 W 20060830; EP 06802749 A 20060830