

Title (en)

REAGENTS FOR THE DETECTION OF PROTEIN PHOSPHORYLATION IN CARCINOMA SIGNALING PATHWAYS

Title (de)

REAGENTIEN ZUM NACHWEIS VON PROTEINPHOSPHORYLIERUNG IN KARZINOM-SIGNALWEGEN

Title (fr)

REACTIFS DE DETECTION DE LA PHOSPHORYLATION PROTEINIQUE DANS LA VOIE DE SIGNALISATION DE CARCINOME

Publication

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Application

EP 06802734 A 20060831

Priority

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Abstract (en)

[origin: WO2007027916A2] The invention discloses nearly (443) novel phosphorylation sites identified in signal transduction proteins and pathways underlying human carcinoma, 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: Protein kinases (including Serine/Threonine dual specificity, and Tyrosine kinases), Adaptor/Scaffold proteins, Transcription factors, Phosphatases, Tumor suppressors, Ubiquitin conjugating system proteins, Translation initiation complex proteins, RNA binding proteins, Apoptosis proteins, Adhesion proteins, G protein regulators/ GTPase activating protein/ Guanine nucleotide exchange factor proteins, and DNA binding/replication/repair proteins, as well as other protein types.

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Citation (search report)

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