

Title (en)
PROTEIN PHOSPHORYLATION IN EGFR-SIGNALING PATHWAYS

Title (de)
PROTEINPHOSPHORYLIERUNG IN EGFR-SIGNALWEGEN

Title (fr)
PHOSPHORYLATION DES PROTEINES SUIVANT DES VOIES CONTROLEES PAR LES EGFR

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EP 1841882 A1 20071010 (EN)

Application
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US 2004042940 W 20041221

Abstract (en)
[origin: WO2006068640A1] The invention discloses 168 novel phosphorylation sites identified in signal transduction proteins and pathways downstream of, and including, EGFR kinase, 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: Actin Binding proteins, Adaptor/Scaffold proteins, Calcium-Binding Proteins, Cell Cycle Regulation proteins, Cytoskeletal proteins, DNA Binding and Replication Proteins, GTPase Activating proteins, Guanine Nucleotide Exchange Factor proteins, Lipid Kinases, Receptor Tyrosine Kinases, Receptor Tyrosine Kinase ligands, Protein Kinases, Receptor and Protein Phosphatases, Transcription Factor proteins, Tumor Suppressor proteins, and Vesicle proteins.

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