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Author Josefin Bolik		
Title (English) Development of a miniaturised and simplified procedure for evaluation of signal transduction pathways		
Title (Swedish)		
Abstract A simple model system was developed for analysing phosphorylation status of a membrane bound protein, namely the PDGF β -receptor, in cell lysate. The method was based on a miniaturised sandwich immunoassay integrated into a CD format with a capture antibody directed against the target protein and a fluorescence labelled detecting antibody raised against the phosphorylated amino acid. Response levels reflecting different degree of phosphorylation of target protein could be demonstrated in cell lysates originating from cell cultures stimulated with PDGF-BB and cell cultures treated as controls. Analysis of cell lysate samples, containing significant amounts of detergent, affected antigen-antibody interactions negatively and generated high background. Further developments are needed to generate a quantitative assay for phosphorylation of the PDGF β -receptor.		
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Supervisors Mats Inganäs Gyros AB		
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Biology Education Centre Box 592 S-75124 Uppsala	Biomedical Center Tel +46 (0)18 4710000	Husargatan 3 Uppsala Fax +46 (0)18 555217