

Title (en)

FLOW CYTOMETRIC DETECTION OF CONFORMATIONS OF pRB IN SINGLE CELLS

Title (de)

DURCHFLUSSCYTOMETRISCHER NACHWEIS VON KONFORMATIONEN VON PRB IN EINZELZELLEN

Title (fr)

DETECTION PAR CYTOMETRIE DE FLUX DE CONFORMATIONS DE pRB DANS DES CELLULES INDIVIDUELLES

Publication

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Application

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Abstract (en)

[origin: WO9944067A1] Methods, reagents, and kits are provided that permit flow cytometric determination of the phosphorylation status of retinoblastoma susceptibility gene protein (pRB) in individual cells. Methods are described that permit the hypophosphorylated, active, form of pRB to be measured either as an absolute quantity or as a proportion of total cellular pRB. Further described are methods that permit pRB phosphorylation status to be correlated with cell cycle phase and with protein components of the cell cycle. Screening of chemical compounds for antiproliferative and antineoplastic activity using the flow cytometric assays is demonstrated. Reagent kits that facilitate the subject methods are also provided.

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