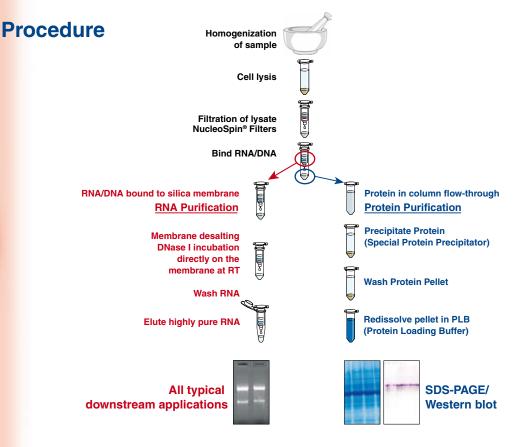
RNA and Protein from one Lysate undivided samples parallel isolation

NucleoSpin[®] RNA/Protein

Rapid Purification of total RNA and Protein from Cells and Tissue

Studies of gene expression on transcriptional and translational level are often complicated by small sample sizes and incompatible techniques for RNA and protein isolation.

The NucleoSpin[®] RNA/Protein Kit enables the parallel isolation of RNA and protein from one lysate and a broad variety of starting materials.



Features

RNA and Protein from one lysate

simple and fast procedure: no phenol, no chloroform, no acetone

High quality RNA

RNA is suitable for all common downstream applications e.g. RT-PCR, TaqMan®, blotting, or microarray

High Protein yield

high protein concentration, suitable for SDS-PAGE and Western blot analysis

Parallel DNA purification possible

parallel DNA purification is possible in combination with the optional NucleoSpin® RNA/DNA buffer set



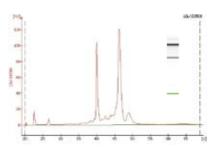


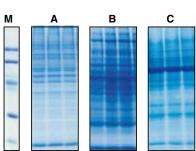
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Applications

✓ gene expression profiling on transcription and translation levels

Application data





High quality

Sample material: 106 HeLa cells

Elution was done using 100 µl RNase free water, 10 µl were analyzed on Agilent Bioanalyzer according to the standard protocol.

High quality of RNA proven by **Bioanalyzer analysis!**

Quantitative **Protein Isolation**

Sample material:

- A: 10⁶ HeLa cells
- B: 30 mg liver
- C: 100 mg garden cress seedlings

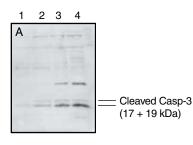
Just 1.4 % of the total isolated protein loaded per lane!

This corresponds to protein from 14 000 HeLa cells (A), 0.43 mg liver (B), and 1.43 mg garden cress seedling (C), respectively per lane.

NucleoSpin® RNA/Protein procedure results in sufficient protein for SDS PAGE analysis

2: 24 h upon treatment 48 h upon treatment

4: 120 h upon treatment



cell lines upon treatment with an apoptosis inducing DNA damaging agent Sample material: carcinoma cell line Sample amount: approx. one million cells Precipitated volume of column flow-through for protein isolation: 200 µl Protein resolubilization volume: 200 µl PLB Sample volume loaded per lane: 16 µl A: Western-blot probed with anti-cleaved caspase-3 B: Western-blot probed with anti-Erk2 1: untreated

Expression analysis of cleaved caspase-3 and Erk2 in carcinoma



Erk2 (41 kDa)

Visualization of changes in protein level possible!

Ordering Information

Catalogue No NZ74093310 NZ74093350 NZ740933250 NZ740944

3:

Description NucleoSpin® RNA/Protein NucleoSpin® RNA/Protein NucleoSpin® RNA/Protein NucleoSpin® RNA/DNA buffer set Quantity 10 preps 50 preps 250 preps 100 preps

Data was kindly provided by Steffen Naumann and Prof. B. Kaina, Department of Toxicology,

University of Mainz, Germany



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