



## Kidney Control Lysate

### BACKGROUND

Total cell lysates are useful as both positive and negative controls in immunoblotting. A431, a human epidermoid carcinoma cell line, and the EGF-stimulated A431 lysates are used as negative and positive controls, respectively, when studying the phosphorylation cascade initiated by ligand binding to receptor tyrosine kinases. Both A431 and normal human fibroblasts are valuable positive controls for antibodies to proteins expressed in these cells. The mouse fibroblast cell line 3T3 and its RSV-transformed counterpart serve as negative and positive controls, respectively, for antibodies to proteins that are phosphorylated as a result of transformation by RSV (Rous sarcoma virus). Madin-Darby bovine kidney (MDBK) cell lysate displays proteins expressed in bovine kidney and PC12 (rat phaeochromocytoma) cell lysate can be expected to mirror the protein expression of cells and tissues of neuroectodermal origin. Likewise, Jurkat cells express the proteins unique to human T-cells. Rat brain is a widely used positive control for those proteins that are exclusively expressed in brain. At right is an example of the use of positive and negative control lysates in western blotting.

The blot of 3T3 cell lysate (lane 1) and RSV-transformed 3T3 (lane 2) was probed with anti-phosphotyrosine peroxidase conjugate to reveal those proteins that are tyrosine-phosphorylated in response to transformation by Rous sarcoma virus.

### COMMENTS

Suggested use: A volume of 10-25ul is suggested for immunoblotting. Optimal concentration should be evaluated by serial dilutions.

### INSTRUCTIONS

### ORDERING INFORMATION

**CATALOG NUMBER**

X1277

**SIZE**

100  $\mu$ l

**CUSTOMER STORAGE**

Product should be stored at -20°C.  
Aliquot to avoid freeze/thaw cycles

**FORMULATION**

Provided as solution in Laemmli electrophoresis sample buffer. Samples need to be boiled for 3-5 minutes, before loading the gel.

**SHIP CONDITIONS**

Room Temperature

**STABILITY**

Reagents are stable for the period shown on the vial label when stored properly