

**AS00003LY-N****A431 cells Control Lysate****Quantity:**

0.1 ml

**Concentration:**

Lot specific

**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 pheochromocytoma) 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.

**Format:**

**State:** All cell lysates are packaged at a protein concentration of ~ 500 µg/ml in Laemmli electrophoresis sample buffer. Samples need to be boiled for 3-5 minutes, before loading the gel.

**Applications:**

Positive and Negative Controls for Western Blots.  
A volume of 10-25µl is suggested for immunoblotting.  
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Storage:**

Store the product at -20°C.  
Shelf life: One year from despatch.