

# A431 EGF Ctrl Lysate

Cat. # AL9201

Size 100  $\mu$ l

## Lysate Preparation:

A431 cells express approximately  $10^6$  epidermal growth factor (EGF) receptors at the cell surface. Upon stimulation with EGF, A431 cells exhibit a dramatic increase in phosphorylation of EGF receptors followed by activation of major cell signaling pathways, such as PKB/Akt and MAP kinase pathways. Downstream of these cell signaling pathways, a variety of cytoskeletal, cytoplasmic, and nuclear proteins become phosphorylated at different time points after EGF stimulation.

Confluent cultures of A431 cells were serum starved overnight. Cells were then either left untreated (Cat.# AL9201) or treated with human EGF (100 ng/ml) for 30 minutes at 37°C (Cat.# AL9301). Cells were lysed in 1% SDS, 1.0 mM sodium ortho-vanadate, 10 mM Tris (pH 7.4) buffer. Protein concentration was determined using the BCA method (Pierce) before diluting to final concentration and buffer.

## Applications:

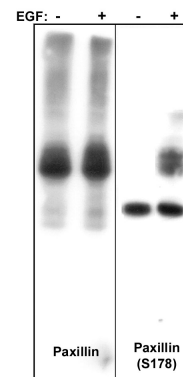
WB 20  $\mu$ l/lane

End user should determine optimal quantity for their particular applications and experiments.

## Related Products:

AL9001 A431 Calyculin A Ctrl Lysate  
AL9101 A431 + Calyculin A (30min) Lysate  
AL9301 A431 + EGF (5min) Lysate  
AL9401 A431 Pervanadate Ctrl Lysate  
AL9501 A431 + Pervanadate Lysate

## Application Data:



Western blot analysis of A431 cells (20  $\mu$ g/lane) serum starved overnight and treated with EGF (100 ng/ml) for 5 min. The blot was probed with anti-paxillin (PM1071) or anti-paxillin (Ser-178).

## Buffer and Storage:

Cell Lysates are supplied at a concentration of 1 mg/ml in electrophoresis sample buffer (62.5 mM Tris pH 6.8, 2% SDS, 5% glycerol, 0.003% bromophenol blue, 0.9%  $\beta$ -mercaptoethanol). Store at -20°C. Do not boil or dilute. Stable for 1 year.

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

www.ecmbiosciences.com  
telephone: 859-879-2075  
toll-free: 1-800-859-8202  
tech: info@ecmbiosciences.com

**ECM**Biosciences

Rev 10/19/2007