

Lysate Preparation

A431 cells express approximately 106 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 5 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.

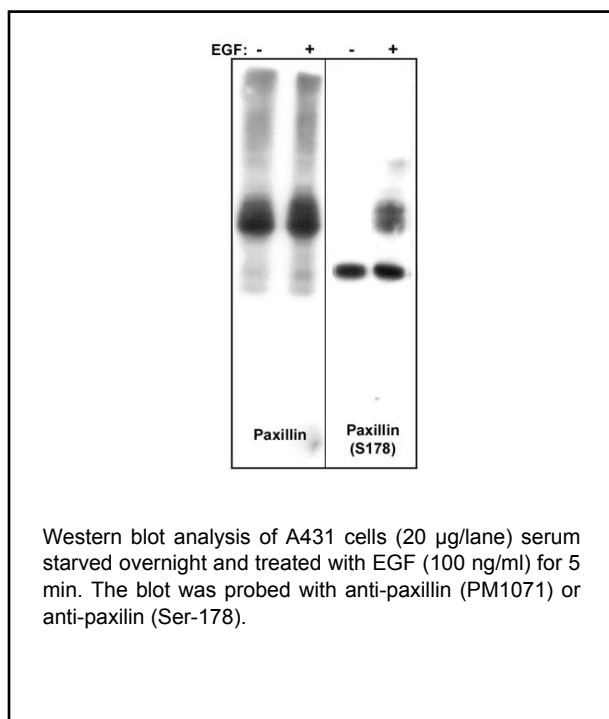
Buffer and Storage

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% β-mercaptoethanol). Store at -20°C. Do not boil or dilute. Stable for 1 year.

Applications

WB 20 µl/lane

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



Related Products

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

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