

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 grown in DMEM containing 10% Fetal bovine serum 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

AL9401 A431 Pervanadate Control Lysate
AL9201 A431 EGF Control Lysate
AL9101 A431 + Calyculin A (30min) Lysate

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