

Datasheet for ABIN964022

A431 Whole Cell Lysate (EGF Stimulated)[Go to Product page](#)**2** Images

Overview

Quantity:	500 µg
Protein Species:	Human
Species of Lysate:	Human Cells
Application:	Western Blotting (WB)

Product Details

Specificity: The cells were grown in Dulbecco's medium supplemented with 10% fetal bovine serum. Cells were washed with PBS and then incubated on ice in modified RIPA buffer, containing 150 mM sodium chloride, 50 mM Tris HCl, pH 7.4, 1 mM EDTA, 1.0% NP-40, 0.5% sodium deoxycholic acid, 0.1% SDS and 0.01% (w/v) sodium azide to lyse the cells. Protein integrity was ensured using a cocktail of protease inhibitors with broad specificity for the inhibition of aspartic, cysteine, and serine proteases as well as aminopeptidases (0.1 mM AEBSF HCl, 0.08 µM Aprotinin, 5 µM Bestatin, 1.5 µM E-64, 2 µM Leupeptin Hemisulfate, 1 µM Pepstatin A). Phosphatase inhibitors 1 mM NaF and 1 mM Na3VO4 were also added. Cell debris was removed by centrifugation. Protein concentration was determined by a modified Lowry assay using a commercially available kit. Protein concentration was adjusted to 2 mg/ml and then an equal volume of 2X SDS-PAGE sample buffer was added.

Characteristics: Cell Line: Human A431 (epidermoid carcinoma)
Induction: EGF - Epidermal Growth Factor (50 ng/ml)

Lysate Fraction: Whole Cell Lysate

Lysate Treatment: EGF treated

Lysate Type: Cell Lysate

Product Details

Lysed Cells: A431 Cells

Target Details

Background: Ready-to-use A431 Whole Cell Lysate EGF Stimulated produced are derived from cell lines or tissues using highly refined extraction protocols to ensure exceptionally high quality, protein integrity and lot-to-lot reproducibility. All extracts are tested by SDS-PAGE using 4-20% gradient gels and immunoblot analysis using antibodies to key cell signaling components to confirm the presence of both high molecular weight and low molecular weight proteins.

Synonyms: Lysate, Cell Lysate, Stimulated Lysate, A431

Application Details

Application Notes: A431 Whole Cell Lysate - EGF Stimulated Ready-to-use lysates are especially prepared as positive controls for separation by SDS-PAGE and subsequent western blot analysis. Lysates are prepared in denaturing buffer WITHOUT dissociating agents (i.e. no 2-mercaptoethanol or dithiothreitol has been added). Heat lysate to 95° C for 5 minutes and rapidly cool. If dissociating conditions are desired, add reducing agent prior to heating. The recommended loading volume per lane is 10-20 µl depending on the size format of your gel.

Comment: Lysate Fractionation: Whole Cell Lysate
Lysate Stimulation: EGF
Lysate Tissue Culture: Tissue Culture

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1.0 mg/mL

Buffer: 1X SDS-PAGE Sample Buffer (62.5 mM Tris HCl, 2% SDS, 10% Glycerol and 0.005% bromophenol blue, pH 6.8)

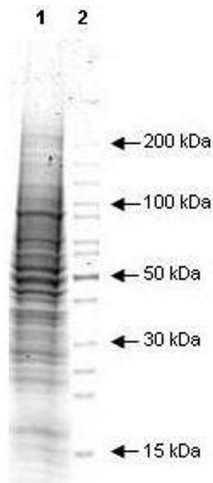
Handling Advice: A431 Whole Cell Lysate - EGF Stimulated Ready-to-use lysates are especially prepared as positive controls for separation by SDS-PAGE and subsequent western blot analysis. Lysates are prepared in denaturing buffer WITHOUT dissociating agents (i.e. no 2-mercaptoethanol or dithiothreitol has been added). Heat lysate to 95 °C for 5 minutes and rapidly cool. If dissociating conditions are desired, add reducing agent prior to heating. The recommended loading volume per lane is 10-20 µl depending on the size format of your gel.

Handling

Storage: -80 °C

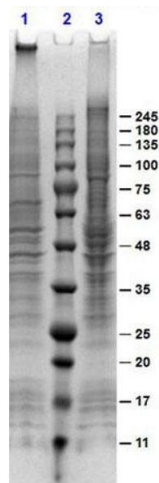
Expiry Date: 3 months

Images



SDS-PAGE

Image 1. Coomassie stained SDS-PAGE of 20 μ l of Human Derived A431 Whole Cell Lysate (Ready-to-Use) separated in a 4-20% gradient gel under reducing conditions (lane 1). Molecular weight standards are shown in lane 2.



SDS-PAGE

Image 2. SDS-PAGE of A431 Whole Cell Lysate Stimulated with EGF (50ng/mL). Lane 1: reduced A431 Lysate EGF Stimulated. Lane 2: Opal PreStained Molecular Ladder. Lane 3: non-reduced A431 Lysate EGF Stimulated. Load: 10 μ g. 4-20% Gel, Coomassie Blue Stained.