

Human EGF Stimulated A431 Whole Cell Lysate

Cat. No. A431-005HCL Lot. No. (See product label)

SPECIFICATION

Product Overview

Ready-to-use A431 Whole Cell Lysate EGF Stimulated 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.

Species Human

Form Liquid


Specificity

The cells were grown in medium supplemented with 10% fetal bovine serum. Cells were washed with PBS and then incubated on ice in modified RIPA buffer 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 μ M Aprotinin, 5 μ M Bestatin, 1.5 μ M E-64, 2 μ M Leupeptin Hemisulfate, 1 μ M 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.

Applications WB, SDS-PAGE

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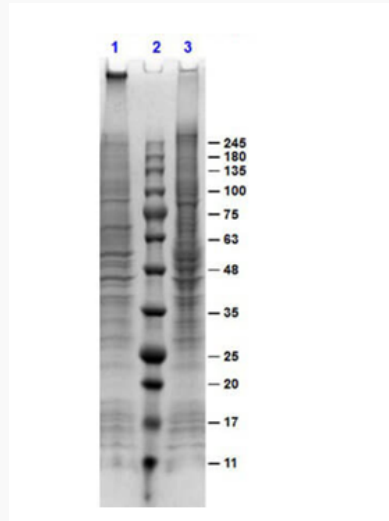
Cell Line	Human A431 (epidermoid carcinoma)
Lysate Fractionation	Whole Cell Lysate
Lysate Stimulation	EGF
Culture Type	Tissue Culture
Induction	EGF - Epidermal Growth Factor (50 ng/mL)
Concentration	1 mg/mL by BCA assay
Buffer	1× SDS-PAGE Sample Buffer (62.5 mM Tris HCl, 2% SDS, 10% Glycerol and 0.005% bromophenol blue, pH 6.8)
Preservative	None
Stabilizer	10% (v/v) Glycerol
Shipping	Dry Ice
Storage	Store A431 Whole Cell Lysate EGF Stimulated at -70 centigrade or COLDER. For extended storage, aliquot lysate to minimize freeze/thaw cycles.
Expiration	Expiration date is three months from date of receipt.

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SDS-PAGE



SDS-PAGE of A431 Whole Cell Lysate Stimulated with EGF (50 ng/mL).

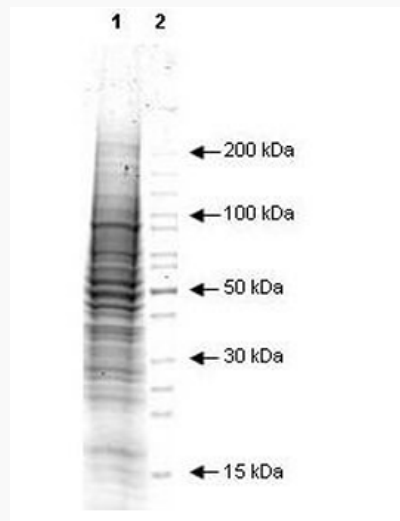
Lane 1: reduced A431 Lysate EGF Stimulated.

Lane 2: Opal PreStained Molecular Ladder.

Lane 3: non-reduced A431 Lysate EGF Stimulated.

Load: 10 µg. 4-20% Gel, Coomassie Blue Stained.

SDS-PAGE




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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.

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