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## Positive Antigen Controls

**Non-Stimulated A431 Cell Lysate**  
**EGF-Stimulated A431 Cell Lysate**  
**Jurkat Cell Lysate**  
**3T3 Cell Lysate**

**Catalog # 12-301**  
**Catalog # 12-302**  
**Catalog # 12-303**  
**Catalog # 12-305**

**Product Description:** Cellular protein preparation. Cells were lysed in modified RIPA buffer (50mM Tris-HCl, pH 7.4, 1% NP40, 0.25% sodium deoxy-cholate, 150mM NaCl, 1mM EGTA, 1mM PMSF, 1µg/ml aprotinin, 1µg/ml leupeptin, 1µg/ml pepstatin, 1mM Na<sub>3</sub>VO<sub>4</sub>, 1mM NaF) and **diluted with non-reducing sample buffer** (31mM Tris-HCl, pH 6.8, 5% glycerol, 1% SDS, 0.002% bromphenol blue).

**Quantity and Formulation:** 100µg in 100µl of RIPA diluted with non-reducing sample buffer. Concentration: 1mg/ml. Frozen solution.

**Storage and Stability:** Stable for 6 months at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

**Use:** Add 2.5µl of 2-mercaptoethanol/100µl of lysate and boil for 5 minutes to reduce the preparation. Load 20µg of reduced lysate per lane for immunoblot analysis. This preparation may be used as a positive control for some of Upstate Biotechnology's antibodies.

**FOR RESEARCH USE ONLY**  
**NOT FOR USE IN HUMANS**

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## HeLa Nuclear Extract

**Catalog # 12-309**

**Product Description:** Nuclear extract prepared from human HeLa cells using a modified protocol of Dignam, *et al.*, which contains a variety of DNA binding proteins and transcription factors.

**Quantity and Formulation:** 50mg in 25ml of RIPA buffer. Concentration: 2mg/ml. Frozen solution.

**Use:** Add an equal volume of Laemmli reducing sample buffer to 5-10µl of lysate and boil for 5 minutes to reduce the preparation. Load 10-20µg of reduced lysate per lane for immunoblot analysis. This preparation may be used as a positive control for some of Upstate Biotechnology's antibodies.

**Storage and Stability:** Stable for 6 months at -70°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

**Reference:**  
Dignam, J.D., *et al.*, Nucl. Acids Res. **11:** 1475-1489, 1983.

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