



10 Old Barn Road · Lake Placid, NY 12946  
Technical Support: T: 800 548-7853 · F: 518 523-4513  
email: techserv@upstatebiotech.com  
Sales Department: T: 800 233-3991 · F: 781 890-7738  
Licensing Dept.: 800 310-4659  
www.upstatebiotech.com

---

## Certificate of Analysis

### Phosphotyrosine Control (EGF-stimulated A431 cell lysate) Catalog # 12-110 Lot # 21125

**Product Description:** Cellular protein preparation from A431 cells containing phosphorylated proteins, including the EGF receptor. A431 cells were cultured for 20 minutes in the presence of 50ng/ml EGF. Cells were lysed in modified RIPA buffer (50mM Tris-HCl, pH 7.4, 1% NP40, 0.25% sodium deoxycholate, 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).

**Formulation:** 1mg provided in 2 vials, each vial containing 500µg/250µl of RIPA sample buffer. Concentration: 2µg/µl. 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.

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

---

### Quality Control Testing

Positive Control for Western Immunoblot Analysis:  
This preparation was tested by using anti-phosphotyrosine monoclonal antibody at 0.5-2µg/ml (Catalog # 05-321) to detect the phosphorylated EGF receptor (170kDa) and other tyrosine phosphorylated proteins in 10-50µg of the preparation.

**Use:** For immunoblot analysis, add an equal volume of Laemmli reducing sample buffer to 5-25µl of lysate and boil for 5 minutes to reduce the preparation.

Immunoprecipitation Positive Control: This

### Additional Research Applications

preparation may also be used for immun-precipitation with anti-phosphotyrosine agarose (Catalog # 16-101).

**Note:** This protein preparation may also be used as positive control for other Upstate Biotechnology Inc. antibodies.