

# K-562 + Calyculin A Lysate

Cat. # KL9561

Size 100  $\mu$ l

## **Lysate Preparation:**

Calyculin A is a serine/threonine phosphatase inhibitor that inhibits the activity of protein phosphatases PP1 and PP2A. Cells treated with calyculin A for 30 minutes can undergo significant threonine phosphorylation, as shown by western blotting using anti-Phosphoserine/threonine, cat.# PP2551, as compared to untreated, control cell lysates.

K-562 lysate was derived from a human chronic myelogenous leukemia (CML) cell line. Confluent cultures of K562 cells were serum starved for 2 hours. Cells were then either left untreated (Cat.# KL9551) or treated with Calyculin A (100 nM) for 30 minutes at 37°C (cat.# KL9561). Cells were lysed in 1% SDS, 1.0 mM sodium ortho-vanadate, 1 mM sodium fluoride in 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%  $\beta$ -mercaptoethanol). Store at  $-20^{\circ}\text{C}$ . Do not boil or dilute. Stable for 1 year.

## **Applications:**

WB 20  $\mu$ l/lane

End user should determine optimal quantity for their particular applications and experiments.

## **Related Products:**

KL8001 K-562 Normal Lysate  
KL9551 K-562 Calyculin A Control Lysate  
KL8201 K-562 Pervanadate Ctrl Lysate  
KL8301 K-562 + Pervanadate Lysate  
PM3801 Anti-Phosphoserine/threonine Mouse Monoclonal  
PP2551 Anti-Phosphoserine/threonine Rabbit Polyclonal

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