



## Jurkat Cell Lysate

Product Specifications	
<b>Catalog Number:</b>	LYC-JK100
<b>Protein Species:</b>	Human
<b>Application Notes:</b> <i>The optimal dilution for a specific application must be determined by the investigator</i>	<b>WB Control:</b> 20 µg/lane <i>This lysate is useful as an internal positive control in immunoblotting studies. The recommended shelf life from date of receipt of lysate is 6 months.</i>
<b>Format:</b>	Jurkat cell extract at 2mg/mL in SDS PAGE sample buffer (40 Mm Tris-HCl, pH. 8.8, 1% SDS, 50 mM DTT, 7.5% glycerol, 0.003% Bromophenol Blue), heated for 10 min at 70°C
<b>Storage:</b> <i>Shipping conditions may differ from the recommended storage temperature</i>	Store at -70°C. For optimal storage, aliquot to smaller portions and store at -70°C. Avoid repeated freeze/thaw cycles.
<b>Related Products:</b>	
LYC-JK101	Jurkat Cell Lysate (Heat Shocked)
905-679	GSK-3β Polyclonal Antibody
905-681	Zap-70 Monoclonal Antibody (11H40)
905-684	Smac/DIABLO Monoclonal Antibody (79-1-83)

### Production Method:

Jurak cells were maintained in RPMI 1640 medium with 2 mM L-glutamine adjusted to contain 1.5 g/L sodium bicarbonate, 4.5 g/L glucose, 10 mM HEPES, and 1.0 mM sodium pyruvate, 90%; fetal bovine serum, 10%. Cells were collected from media by centrifuging at 1200 rpm at 4°C in a Beckman GS-6R centrifuge for 7 minutes. Cells were washed twice in PBS and were lysed in M-PER Mammalian Protein Extraction Reagent (Pierce catalog #78501) with a protease inhibitor cocktail. Cell lysate was adjusted to 2mg/mL in SDS PAGE sample buffer (40 mM Tris-HCl, pH 6.8, 1% SDS, 50 mM DTT, 7.5% glycerol, 0.003% Bromophenol blue) and heated for 10 min at 70°C.

### Background:

The Jurkat T lymphocyte cell line (originally designated JM) was established from the peripheral blood of a 14 year old boy with T cell leukemia<sup>1</sup>.

#### References:

1. Schneider, U., et al. (1977) Int J Cancer **19**, 621-626.