PC12 Control Lysate

Cat. # PL7091

Size 100 µl

Lysate Preparation:

Rat pheochromocytoma-derived PC12 cells are an important cell model for studies of growth factor cell signaling pathways. PC12 has been used for a variety of studies where cell division and cell differentaiton have been induced through growth factor activation. Both NGF and FGF can promote neurite proliferation, while EGF and IGF-1 can induce mitosis in PC12 cells. In addition, PC12 cells can be used as a model of neuron development since they express many neuronal proteins and can differentiate into a neuron-like morphology.

PC12 cells were serum starved for two hours and the cells were then either left untreated (Cat.# PL7091) or treated with Calyculin A (100 nM; Cat.# PL7101) or pervanadate (1 mM; Cat.# PL7111) for 30 minutes at 37°C. Cells were lysed in 1% SDS, 1.0 mM sodium ortho-vanadate, 1 mM sodium fluoride, 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% β-mercaptoethanol). Store at –20°C. Do not boil or dilute. Stable for 1 year.

Applications:

WB 20 µl/lane

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

Related Products:

PL7101 PC12 + Calyculin A Lysate
PL7111 PC12 + Pervanadate Lysate
PL7121 PC12 (undifferentiated) Lysate
PL7131 PC12 (NGF-differentiated 1 hr) Lysate
PL7141 PC12 (NGF-differentiated 24 hr) Lysate

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