

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 differentiation 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 differentiate into a neuron-like morphology and express various neuronal proteins.

PC12 cells were differentiated into neurite-bearing cells by plating the cells on rat tail collagen coated dishes and growing the cells in the presence of NGF (200 ng/ml) for 48 hrs (Cat.# PL7141). Undifferentiated PC12 cells (PL7121) were grown in suspension cultures. Both PC12 cell models 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.

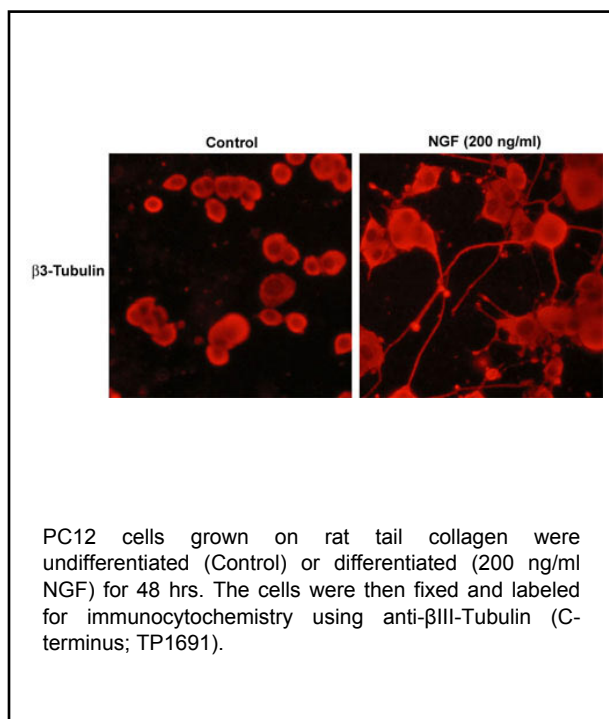
Buffer and Storage

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

PL7091	PC12 Control Lysate
PL7101	PC12 + Calyculin A Lysate
PL7111	PC12 + Pervanadate Lysate
PL7121	PC12 (undifferentiated) Lysate
PL7131	PC12 + NGF (30 min) Lysate

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