abcam

Product datasheet

C2C12 whole cell lysate ab7182

Overview

Product name	C2C12 whole cell lysate
General notes	Cell line: C2C12 (muscle; myoblast). Growth media: DMEM and 10% fetal bovine serum. Mouse C2C12 cell lysate was prepared by homogenization in modified RIPA buffer (50mM Tris-HCl, pH 7.4, 1% Triton X-100, 0.2% sodium deoxycholate, 0.2% sodium dodecylsulfate (SDS), 1 mM sodium ethylenediaminetetraacetate, 1 mM phenylmethylsulfonyl flouride, 5 µg/ml of aprotinin, 5 µg/ml of leupeptin). Cell debris was removed by centrifugation. Protein concentration was determined with Bio-Rad protein assay. The cell lysate was boiled for 5 min in 1 x SDS sample buffer (0.045 M Tris-HCl pH 6.8, 10% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue), containing 0.05 M DTT.
Tested applications	**Suitable for:** WB

Properties

Mycoplasma free	Yes
Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Constituent: 100% SDS Sample Buffer
Lysate notes	Mouse C2C12 cell lysate was prepared by homogenization in modified RIPA buffer (50mM Tris-HCl, pH 7.4, 1% Triton X-100, 0.2% sodium deoxycholate, 0.2% sodium dodecylsulfate (SDS), 1 mM sodium ethylenediaminetetraacetate, 1 mM phenylmethylsulfonyl flouride, 5 µg/ml of aprotinin, 5 µg/ml of leupeptin). Cell debris was removed by centrifugation. Protein concentration was determined with Bio-Rad protein assay. The lysate was boiled for 5 min in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% SDS, 0.01% bromophenol blue) containing 5% b-mercaptoethanol.
Background	C2C12 cells were originally obtained by Yaffe and Saxel (1977) through selective serial passage of myoblasts cultured from the thigh muscle of C3H mice 70 h after a crush injury. These cells were shown to be capable of differentiation. C2C12 cells are a useful model to study the differentiation of non-muscle cells to skeletal muscle cells (e.g myosin phosphorylation mechanisms) and express muscle proteins and the androhen receptor (AR).

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab7182 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent dilution. Ready to load on SDS-PAGE for Western blotting, 20 µg per lane is recommended for mini gel.

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