BACKGROUND

Fibroblast cells synthesize and maintain the extracellular matrix in a wide variety of mammal tissues. Fibroblasts provide a structural framework for many tissues and also play an important role in wound healing. They are continuously secreting precursors of the extracellular matrix, specifically the collagens, glycosaminoglycans, reticular and elastic fibers and glycoproteins. Fibroblasts are morphologically heterogeneous and are not restricted by a polarizing attachment to a basal lamina. Fibroblasts have a branched cytoplasm surrounding an elliptical, speckled nucleus having one or two nucleoli. Fibroblasts proliferate easily, making them a popular cell type for cell cultures in biological research. Fibroblast markers can aid in the identification and behavioral analysis of these cells. This intermediate filament protein vimentin, for example, is expressed on Fibroblast cells, and it is used as a marker to distinguish the mesodermal origin of the cells.

SOURCE

Fibroblast Marker (ER-TR7) is a rat monoclonal antibody raised against a thymic reticulum of mouse origin.

PRODUCT

Each vial contains 200 µg IgG2a in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Fibroblast Marker (ER-TR7) is available conjugated to agarose (sc-73355 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-73355 HRP), 200 µg/ml, for WB, HCoP and ELISA; to either phycoerythrin (sc-73355 PE), fluorescein (sc-73355 FITC), Alexa Fluor® 488 (sc-73355 AF488), Alexa Fluor® 594 (sc-73355 AF594) or Alexa Fluor® 647 (sc-73355 AF647), 200 µg/ml, for IF, HCoP and FCM; and to either Alexa Fluor® 680 (sc-73355 AF680) or Alexa Fluor® 790 (sc-73355 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

In addition, Fibroblast Marker (ER-TR7) is available conjugated to either PerCP (sc-73355 PerCP) or PerCP-Cy5.5 (sc-73355 PCPerCP), 100 tests in 2 ml, for IF, HCoP (PE) and FCM.

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APPLICATIONS

Fibroblast Marker (ER-TR7) is recommended for detection of reticular fibroblasts of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10⁸ cells); non cross-reactive with purified Laminin, Collagen Types I-V, Fibronectin or Nidogen.

Positive Controls: 3611-RF whole cell lysate: sc-2215.

STORAGE

Store at 4°C, **“DO NOT FREEZE”**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

DATA

![Fibroblast Marker](image)

Fibroblast Marker (ER-TR7) HRP: sc-73355 HRP. Direct western blot analysis of Fibroblast Marker expression in 3611-RF whole cell lysate.

SELECT PRODUCT CITATIONS


PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.