

## Datasheet: MCA1399G

### BATCH NUMBER 1703

<b>Description:</b>	MOUSE ANTI HUMAN FIBROBLASTS/EPITHELIAL CELLS
<b>Specificity:</b>	FIBROBLASTS/EPITHELIAL CELLS
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	D7-FIB
<b>Isotype:</b>	IgG2a
<b>Quantity:</b>	0.2 mg

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/50 - 1/200
Immunohistology - Frozen (1)	▪			1/100
Immunohistology - Paraffin		▪		
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

**(1)The epitope recognised by this antibody is reported to be sensitive to formaldehyde fixation and tissue processing. Bio-Rad recommends the use of acetone fixation for frozen sections.**

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Does not react with:Rat, Mouse
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Human foreskin fibroblasts.
<b>RRID</b>	AB_2180567
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2 myeloma cell line.
<b>Specificity</b>	<p><b>Mouse anti Human Fibroblasts/Epithelial Cells antibody, clone D7-FIB</b> recognizes a ~112kDa molecule expressed on the cell surface of human fibroblasts. The antigen is not expressed by peripheral blood cells, and is found at low levels on a minority of melanoma cell lines. Studies upon the antigen have shown it to be sensitive to SDS, but resistant to trypsin, tunicamycin and collagenase.</p> <p>In immunohistological studies Mouse anti Human Fibroblasts/Epithelial Cells antibody.</p> <p>Mouse anti Human Fibroblasts/Epithelial Cells antibody, clone D7-FIB has also been found to bind to epithelium, myoepithelium, smooth muscle and some leucocytes.</p> <p>Mouse anti Human Fibroblasts/Epithelial Cells antibody, clone D7-FIB is useful as a cell membrane marker to characterize chondrocyte differentiation giving a positive reaction with dedifferentiated human chondrocytes, and negative with differentiated chondrocytes (<a href="#">van Osch et al. 2001</a>).</p> <p>Mouse anti Human Fibroblasts/Epithelial Cells antibody, clone D7-FIB is routinely tested in flow cytometry on the KG1 cell line.</p>
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 10 <sup>6</sup> cells in 100ul.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Fearn C &amp; Dowdle EB (1992) The desmoplastic response: induction of collagen synthesis by melanoma cells <i>in vitro</i>. <a href="#">Int J Cancer. 50 (4): 621-7.</a></li> <li>2. Kelynack, K.J. et al. (2000) Human renal fibroblast contraction of collagen I lattices is an integrin-mediated process. <a href="#">Nephrol Dial Transplant. 15 (11): 1766-72.</a></li> <li>3. van Osch, G.J. et al. (2001) Monoclonal antibody 11-fibrau: a useful marker to characterize chondrocyte differentiation stage. <a href="#">Biochem Biophys Res Commun. 280 (3): 806-12.</a></li> <li>4. Behl, B. et al. (2013) Biological effects of cobalt-chromium nanoparticles and ions on dural fibroblasts and dural epithelial cells. <a href="#">Biomaterials. 34 (14): 3547-58.</a></li> <li>5. Morito, T. et al. (2008) Synovial fluid-derived mesenchymal stem cells increase after</li> </ol>

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<b>Storage</b>	Store at +4°C or at -20°C if preferred.  This product should be stored undiluted.  Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1399G">https://www.bio-rad-antibodies.com/SDS/MCA1399G</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>

Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@550](#),  
[DyLight@650](#), [DyLight@680](#), [DyLight@800](#),  
[FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

## Recommended Negative Controls

[MOUSE IgG2a NEGATIVE CONTROL \(MCA929\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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Printed on 18 Jan 2024

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