

Datasheet: MCA2396EL

Description:	RAT ANTI MOUSE CD71:Low Endotoxin
Specificity:	CD71
Other names:	TRANSFERRIN RECEPTOR
Format:	Low Endotoxin
Product Type:	Monoclonal Antibody
Clone:	ER-MP21
Isotype:	IgG2a
Quantity:	0.5 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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			1/50 - 1/100
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA			■	
Immunoprecipitation	■			
Western Blotting			■	
Functional Assays	■			

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.

Target Species	Mouse
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Balb/c macrophage precursor cell hybrids.

**External Database
Links**

UniProt:

[Q62351](#) [Related reagents](#)

Entrez Gene:

[22042](#) Tfr [Related reagents](#)

Synonyms

Tfr

Fusion Partners

Cells from immunised rats were fused with cells of the rat Y3-Ag1.2.3 myeloma cell line.

Specificity

Rat anti Mouse CD71 antibody, clone ER-MP21 recognizes murine CD71, a ~200 kDa antigen, otherwise known as the transferrin receptor. CD71 is expressed by all proliferating cell populations and exists as a homodimer at the cell surface.

Rat anti Mouse CD71 antibody, clone ER-MP21 inhibits iron uptake and cell proliferation but does not compete with transferrin for binding to its receptor, which suggests that clone ER-MP21 binds to an epitope that is different from the transferrin-binding site ([Leenen *et al.* 1990](#)).

Flow Cytometry

Use 10ul of the suggested working dilution to label 10⁶ cells in 100ul.

References

1. Leenen, P.J.M. *et al.* (1990) Differential inhibition of macrophage proliferation by anti-transferrin receptor antibody ER-MP21: correlation to macrophage differentiation stage. [Exp Cell Res.189:55 – 63.](#)
2. Moos, T. (1995) Increased accumulation of transferrin by motor neurons of the mouse mutant progressive motor neuronopathy (pmn/pmn). [J Neurocytol. 1995 May;24\(5\):389-98.](#)
3. Brekelmans, P. *et al.* (1994) Inhibition of proliferation and differentiation during early T cell development by anti-transferrin receptor antibody. [Eur J Immunol. 24 \(11\): 2896-902.](#)

Storage

Store at -20°C only.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10162 available at:
10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®549 , DyLight®649 , DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR69...)	FITC

Goat Anti Rat IgG (STAR72...)

[HRP](#)

Recommended Negative Controls

[RAT IgG2a NEGATIVE CONTROL:Low Endotoxin \(MCA1212EL\)](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

'M315683:180503'

Printed on 05 May 2018

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)