

Datasheet: MCA2775

Description:	MOUSE ANTI HUMAN CD71 (SOLUBLE)
Specificity:	CD71 (SOLUBLE)
Other names:	TRANSFERRIN RECEPTOR
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	23D10
Isotype:	IgG2b
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			■	
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA	■			
Immunoprecipitation			■	
Western Blotting (1)	■			

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)**Clone 23D10 recognises human CD71 (soluble) under non-reducing conditions.**

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Purified human soluble transferrin receptor.

**External Database
Links**

UniProt:

[P02786](#)

[Related reagents](#)

Entrez Gene:

[7037](#)

TFRC

[Related reagents](#)

Fusion Partners

Spleen cells from immunised BALB/c mice were fused with cells of the mouse Sp2/0 myeloma cell line.

Specificity

Mouse anti Human CD71 (Soluble) antibody, clone 23D10 recognizes human soluble CD71 (also known as transferrin receptor, or TfR). CD71 is a homodimeric membrane protein, approximately 90 kDa in size. It is responsible for the uptake of iron into the cell, by binding to and internalising iron-bound transferrin (ferrotransferrin). After the iron is released into the cell, the apotransferrin is relocated to the cell surface and released into the circulation. When CD71 is cleaved at Arg-100, a soluble (or serum) form of the protein is released. The level of soluble CD71 is used to detect erythropoietin misuse by athletes. It is also used to diagnose iron deficiency anemia.

Mouse anti Human CD71 (Soluble) antibody, clone 23D10 recognizes human soluble transferrin receptor and the complex between soluble transferrin receptor and transferrin.

Storage

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.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10040 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)

[RPE](#)

Goat Anti Mouse IgG IgA IgM (STAR87...)

[Alk. Phos.](#), [HRP](#)

Goat Anti Mouse IgG (H/L) (STAR117...)

[Alk. Phos.](#), [DyLight®488](#), [DyLight®549](#),
[DyLight®649](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...)

[FITC](#)

Goat Anti Mouse IgG (STAR77...)

[HRP](#)

Rabbit Anti Mouse IgG (STAR12...)

[RPE](#)

Goat Anti Mouse IgG (Fc) (STAR120...)

[FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR8...)

[DyLight®800](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)
Human Anti Mouse IgG2b (HCA038...) [FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

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