

Datasheet: VMA00037

Description:	MOUSE ANTI CD71 (SOLUBLE)
Specificity:	CD71 (SOLUBLE)
Other names:	Transferrin Receptor
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	13E4
Isotype:	IgG2a
Quantity:	100 µl

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
ELISA	▪			
Immunoprecipitation	▪			
Western Blotting	▪			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Learn about [how we validate our PrecisionAb range](#). Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Mouse monoclonal antibody purified by affinity chromatography on Protein A from tissue culture supernatant.
Buffer Solution	Phosphate buffered saline.
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃).
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml

Immunogen Purified human soluble transferrin receptor

External Database

Links

UniProt:

[P02786](#)

[Related reagents](#)

Entrez Gene:

[7037](#)

TFRC

[Related reagents](#)

Specificity

Mouse anti Human CD71 (soluble) antibody recognizes the human soluble transferrin receptor (sTfR) also known as sCD71 or p90. CD71 is a single pass type II membrane glycoprotein of ~90 kDa containing a single [protease associated domain](#). sCD71 forms a homodimeric complex, a truncated form of the membrane bound transferrin receptor lacking the cytoplasmic and transmembrane regions of the molecule ([Shih *et al.* 1990](#)). It is responsible for the uptake of iron into the cell by binding to and internalizing iron-bound transferrin (Kogan *et al.* 2005). After the iron is released into the cell the apotransferrin is relocated to the cell surface, cleaved at Arg-100 and released into the circulation. In healthy adults almost all transferrin receptors exist in the soluble form ([Shih *et al.* 1993](#)). The level of soluble CD71 is used to detect erythropoietin misuse by athletes ([Borrione *et al.* 2007](#)). It is also used to diagnose iron deficiency anemia ([Kamer *et al.* 2012](#)).

Mouse anti Human soluble CD71 recognizes human both the soluble transferrin receptor and the complex between soluble transferrin receptor and transferrin. The antibody recognizes CD71 as a single band of ~90 kDa in multiple human cell line lysates by western blotting under reducing conditions.

Western Blotting

Anti CD71 (soluble) antibody detects a band of approximately 90 kDa in K562 cell lysates.

Storage

This product is shipped at ambient temperature.
Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

Guarantee

12 months from date of despatch.

Acknowledgements

PrecisionAb is a trademark of Bio-Rad Laboratories.

Health And Safety Information

Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/VMA00037>

Regulatory

For research purposes only.

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

Recommended Negative Controls

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M443198:250709'

Printed on 09 Jul 2025

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