

Datasheet: VMA00037

BATCH NUMBER 090714

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	▪			
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. Click [here](#) to learn 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	IgG concentration 0.5 mg/ml

Concentrations

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 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>
Antibody (10040)

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

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

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