

Datasheet: VMA00037KT

Description:	CD71 (SOLUBLE) ANTIBODY WITH CONTROL LYSATE
Specificity:	CD71 (SOLUBLE)
Other names:	Transferrin Receptor
Format:	Purified
Product Type:	PrecisionAb™ Monoclonal
Isotype:	IgG2a
Quantity:	2 Westerns

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
Western Blotting	■			1/1000

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. 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 dependant on sample type.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	20µl 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)
Immunogen	Purified human soluble transferrin receptor
External Database Links	<p>UniProt: P02786 Related reagents</p> <p>Entrez Gene: 7037 TFRC Related reagents</p>
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.
Instructions For Use	Please refer to the PrecisionAb western blotting protocol . For additional information on secondary antibody dilution and exposure time see product web page.
Lysate Composition	400µg K562 lysate lyophilized in RIPA buffer.
Lysate Reconstitution	<p>- If using DDT reconstitute the lyophilized lysate with 190µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 10µl 2M DTT.</p> <p>- If using BME reconstitute the lyophilized lysate with 180µl DI H₂O, add 200µl 2x Laemmli Sample Buffer and 20µl BME.</p> <p>Heat at 95°C for 5 minutes. For 10 well mini gels load 25µl. For other gel and comb formats please refer to the PrecisionAb western blotting protocol.</p>
Storage	<p>Antibody: Store undiluted at -20°C, avoiding repeated freeze thaw cycles.</p> <p>Lysate: Store lyophilized lysate at -20°C. After reconstitution aliquot and store at -20°C for up to 3 months or at -80°C for longer term storage.</p>
Guarantee	As supplied, 12 months from date of despatch.
Acknowledgements	PrecisionAb™ is a trademark of Bio-Rad Laboratories.
Health And Safety Information	<p>Material Safety Datasheet documentation #10040 #10561 available at:</p> <p>Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf</p> <p>Lysate Material (10561): https://www.bio-rad-antibodies.com/uploads/MSDS/10561.pdf</p>
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 \(MCA929\)](#)

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