

# Product Datasheet

## TfR (Transferrin R) Antibody (YTA74.4) - BSA Free NB100-65397

Unit Size: 0.125 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NB100-65397**

TfR (Transferrin R) Antibody (YTA74.4) - BSA Free

**Product Information**

<b>Unit Size</b>	0.125 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	YTA74.4
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG2a
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS (pH 7.4)

**Product Description**

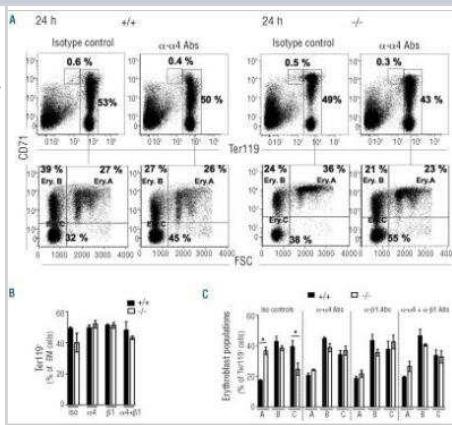
<b>Host</b>	Rat
<b>Gene ID</b>	7037
<b>Gene Symbol</b>	TFRC
<b>Species</b>	Mouse
<b>Marker</b>	Recycling Endosome Marker
<b>Specificity/Sensitivity</b>	Mouse CD71 antigen, the transferrin receptor (TFR). Expressed on all dividing cells and can distinguish resting and activated T-cells. Immunoprecipitates a disulphide linked homodimer of 90kD by SDS PAGE. The antibody inhibits cell proliferation and the mixed lymphocyte response in vitro. Blocks the binding of R17 217.1.3. and R17 208.2 anti-TFR monoclonal antibodies (1,2).
<b>Immunogen</b>	Mouse Concanavilin A activated spleen cells.

**Product Application Details**

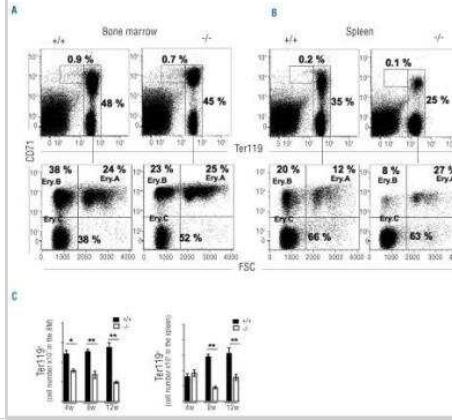
<b>Applications</b>	Flow Cytometry, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
<b>Recommended Dilutions</b>	Flow Cytometry 1:10-1:1000, Immunohistochemistry 1:10-1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Frozen 1:10-1:500

## Images

Flow Cytometry: TfR (Transferrin R) Antibody (YTA74.4) [NB100-65397]  
 - Alpha4 and beta1 integrin activity regulation is required for erythroblast developmental transition. (A) Representative FACS plots of bone marrow (BM) Ter119+ erythroblasts after treatment with anti-alpha4 blocking antibodies (Abs) or with isotype-matched Abs. Percentages shown are of parent populations. (B) and (C) Histograms showing the mean of two independent experiments for mice treated with anti-alpha4, anti-beta1, their combination or with iso-type-matched Abs.



Flow Cytometry: TfR (Transferrin R) Antibody (YTA74.4) [NB100-65397]  
 - SWAP-70-deficient mice have lower erythropoietic reserves. Upper plots: Ter119(low)CD71(high) comprise proerythroblasts and Ter119+ comprise total erythroblasts. Percentages shown are of total BM and spleen cells. Lower plots: erythroblasts, subgated Ter119high. Percentages shown are of parent populations. (C) Automated-quantified (MACSQuant, Miltenyi) total numbers of Ter119+ cells in the BM (per 1 femur and 1 tibia) and in the spleen of wt and Swap-70(-/-) mice of different ages.





## **Novus Biologicals USA**

10730 E. Briarwood Avenue

Centennial, CO 80112

USA

Phone: 303.730.1950

Toll Free: 1.888.506.6887

Fax: 303.730.1966

[novus@novusbio.com](mailto:novus@novusbio.com)

## **Bio-Techne Canada**

21 Canmotor Ave

Toronto, ON M8Z 4E6

Canada

Phone: 905.827.6400

Toll Free: 855.668.8722

Fax: 905.827.6402

[canada.inquires@bio-techne.com](mailto:canada.inquires@bio-techne.com)

## **Bio-Techne Ltd**

19 Barton Lane

Abingdon Science Park

Abingdon, OX14 3NB, United Kingdom

Phone: (44) (0) 1235 529449

Free Phone: 0800 37 34 15

Fax: (44) (0) 1235 533420

[info.EMEA@bio-techne.com](mailto:info.EMEA@bio-techne.com)

## **General Contact Information**

[www.novusbio.com](http://www.novusbio.com)

Technical Support: [technical@novusbio.com](mailto:technical@novusbio.com)

Orders: [orders@novusbio.com](mailto:orders@novusbio.com)

General: [novus@novusbio.com](mailto:novus@novusbio.com)

## **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis.

Primary Antibodies are guaranteed for 1 year from date of receipt.

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