

**CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET**

<b>Product name</b>	Transferrin receptor 1, Human, clone 3B8 2A1		
<b>Catalog number</b>	HM2134-100UG		
<b>Lot number</b>	-	<b>Expiry date</b>	-
<b>Volume</b>	1 ml	<b>Amount</b>	100 µg
<b>Formulation</b>	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	<b>Concentration</b>	100 µg/ml
<b>Host Species</b>	Mouse IgG1	<b>Conjugate</b>	None
<b>Endotoxin</b>	N.A.	<b>Purification</b>	Protein G
<b>Storage</b>	4°C		

**Application notes**

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes	•			•		•	•	•
No					•			
N.D.		•	•					

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10.

- FS: The monoclonal antibody 3B8 2A1 does not inhibit the biological activity of TfR1.
- IA: HM2134 can be used as detector.

**General Information**

<b>Description</b>	Human transferrin receptor 1 (TfR1), also designated CD71, is a homodimeric type II membrane glycoprotein of 90-95 kDa. This receptor binds two molecules of the serum iron-transport protein transferrin (Tf) and is internalised into endosomes that are acidified, resulting in the release of iron from Tf. TfR1 is not expressed on resting leukocytes but is upregulated on all proliferating cells upon activation, reflecting the iron dependence of proliferation. In tissues TfR1 is expressed on most dividing cells and on brain capillary endothelium. Expression of TfR1 is down regulated as a result of iron overload. TfR1 shares 45% identity with TfR2.
<b>Aliases</b>	CD71, TfR1
<b>References</b>	<ol style="list-style-type: none"> <li>Vogt, T et al; Heterotypic interactions between transferrin receptor and transferrin receptor 2. Blood 2003, 101: 2008</li> <li>Johnson, M et al; Diferric transferrin regulates transferrin receptor 2 protein stability. Blood 2004, 104: 4287</li> </ol>
<b>Storage&amp;stability</b>	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.
<b>Precautions</b>	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC  
Brenda Teunissen

Date  
02/12/2019

Do you have any questions or comments regarding this product? Please contact us via [support@hycultbiotech.com](mailto:support@hycultbiotech.com).