

Datasheet: 9100-1055

BATCH NUMBER 149617

Description:	MOUSE ANTI HUMAN TRANSFERRIN (N-TERMINAL)
Specificity:	TRANSFERRIN (N-TERMINAL)
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	HTF-14
Isotype:	IgG1
Quantity:	0.2 mg

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	▪			
Immunofluorescence	▪			
Functional Assays	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Pig, Rabbit, Rat

Does not react with: Sheep, Bovine, Dog, Horse

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein A

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1mg/ml
Immunogen	Purified porcine transferrin.
External Database Links	<p>UniProt: P02787 Related reagents</p> <p>Entrez Gene: 7018 TF Related reagents</p>
RRID	AB_2202011
Specificity	<p>Mouse anti transferrin antibody, clone HTF-14 recognizes the N-terminal domain of human transferrin and has been shown to block binding of transferrin to the transferrin receptor (CD71). Clone HTF-14 is not able to recognize receptor bound transferrin. Clone HTF-14 recognizes a conformational epitope in a loop of the N lobe of transferrin involving the critical Lys-144 residue, also essential for binding of the N lobe to the transferrin receptor (Mason et al.2009)</p> <p>Transferrin is a 77 kDa plasma protein synthesized by the liver involved with the transport of iron. Each transferrin molecule has two domains, both with facility to carry 2 ferric ions. The iron/transferrin complex is essential for hemoglobin synthesis and certain types of cell division.</p>
Western Blotting	HTF-14 recognises a band of approximately 77kDa under reducing conditions in human plasma.
References	<ol style="list-style-type: none"> 1. Rubikaite, B.I. <i>et al.</i> (1989) [Identification of the segment for binding of transferrin using a cellular receptor]. Mol Biol (Mosk). 23: 765-71. 2. Hradilek, A. and Neuwirt, J. (1986) Iron uptake by MOLT 3 cells from transferrin/monoclonal antitransferrin antibody complexes. Br J Haematol. 62: 21-30. 3. Trebichavsky, I. <i>et al.</i> (1987) Monoclonal antibodies against pig transferrin. Blocking and binding activity. Folia Microbiol (Praha). 32: 448-52. 4. Fuchs, O. <i>et al.</i> (1988) Non-transferrin donors of iron for heme synthesis in immature erythroid cells. Biochim Biophys Acta. 969: 158-65. 5. Bártek, J. <i>et al.</i> (1985) Phylogenetically more conservative epitopes among monoclonal antibody-defined antigenic sites of human transferrin are involved in receptor binding. Br J Haematol. 59: 435-41. 6. Penhallow, R.C. <i>et al.</i> (1986) Comparative studies of the binding and growth-supportive ability of mammalian transferrins in human cells. J Cell Physiol. 128: 251-60. 7. Funk, W.D. <i>et al.</i> (1990) Expression of the Amino-Terminal Half-Molecule of Human Serum Transferrin in Cultured Cells and Characterization of the Recombinant Protei Biochemistry. 29: 1654-60.
Storage	Store at +4°C or at -20°C if preferred.

Storage in frost-free freezers is not recommended.
This product should be stored undiluted.
Avoid repeated freezing and thawing as this may denature the antibody.
Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/9100-1055 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M363558:200528'

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