

Datasheet: 9100-0004

**BATCH NUMBER 155741**

<b>Description:</b>	SHEEP ANTI HUMAN TRANSFERRIN
<b>Specificity:</b>	TRANSFERRIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	1 ml

## 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			

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.

<b>Target Species</b>	Human
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<b>Product Form</b>	Purified IgG - liquid
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<b>Antiserum Preparation</b>	Antisera to human transferrin were raised by repeated immunisations of sheep with highly purified antigen. Purified IgG prepared by affinity chromatography on Protein G
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<b>Buffer Solution</b>	Phosphate buffered saline
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<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
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<b>Approx. Protein Concentrations</b>	IgG concentration 5.0 mg/ml
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<b>Immunogen</b>	Pure human transferrin prepared from pooled normal human serum.
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<b>External Database Links</b>	<b>UniProt:</b>
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[P02787](#)   [Related reagents](#)

**Entrez Gene:**

[7018](#)   TF   [Related reagents](#)

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**RRID**                      AB\_2271671

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**Specificity**                      **Sheep anti Human transferrin antibody** recognizes human transferrin, an approximately 80 kDa blood plasma glycoprotein synthesised by the liver, which contains two specific high affinity iron (Fe<sup>3+</sup>) binding sites and is responsible for the transport and supply of an exchangeable pool of iron, through binding to cell surface transferrin receptors.

Transferrin is the primary blood iron transport protein and under normal conditions, approximately one-third of total blood transferrin contains bound iron. Measurement of blood transferrin levels can be used as an indicator for blood iron-carrying capacity and abnormalities of iron metabolism such as anaemia, iron overload and haemochromatosis.

Sheep anti Human transferrin antibody shows minimal cross reactivity with related serum proteins.

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**References**

1. Rouault, T.A. (2003) How mammals acquire and distribute iron needed for oxygen-based metabolism. [PLoS Biol. 1 \(3\): E79.](#)
2. Olkhov, R. and Shaw, A.M. (2014) Growth kinetics of gold nanoparticles on silica/graphene surfaces for multiplex biological immunoassays. [RSC Adv., 2014,4, 31678-84.](#)

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**Further Reading**

1. Giannetti, A.M. *et al.* (2003) Mechanism for multiple ligand recognition by the human transferrin receptor. [PLoS Biol. 1 \(3\): E51.](#)

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**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.

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**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/9100-0004>  
10040

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**Regulatory**                      For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)

**North & South** Tel: +1 800 265 7376

**Worldwide** Tel: +44 (0)1865 852 700

**Europe** Tel: +49 (0) 89 8090 95 21

**America** Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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

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