Datasheet: 9100-0004F

Description:	SHEEP ANTI HUMAN TRANSFERRIN:FITC
Specificity:	TRANSFERRIN
Format:	FITC
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Immunofluorescence	▪			

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 appropriate negative/positive controls.

Target Species

Human

Product Form

Purified IgG - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
FITC	490	525

Antiserum Preparation

Antisera to human transferrin were raised by repeated immunisations of sheep with highly purified antigen. Purified IgG prepared by affinity chromatography on protein G

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN_3)

Approx. Protein Concentrations

IgG concentration 1.0mg/ml

Immunogen

Pure human transferrin prepared from pooled normal human serum.

External Database Links

UniProt:

P02787 Related reagents

Entrez Gene:

7018 TF Related reagents

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 (Fe3+) 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.
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.
Further Reading	1. Giannetti, A.M. *et al.* (2003) Mechanism for multiple ligand recognition by the human transferrin receptor. PLoS Biol. 1 (3): E51.
Storage	Store at +4^{o}C or at -20^{o}C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

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